

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

**Name of Permitted Facility: Little Sioux Corn Processors, LLLP**

**Facility Location: 4808 F Avenue, Marcus, IA 51035**

**Air Quality Operating Permit Number: 10-TV-005R1-M001**

**Expiration Date: July 18, 2021**

**Permit Renewal Application Deadline: January 18, 2021**

**EIQ Number: 92-7002**

**Facility File Number: 18-02-006**

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**Responsible Official**

**Name: Steve Roe**

**Title: General Manager**

**Mailing Address: 4808 F Avenue, Marcus, IA 51035**

**Phone #: (712) 376-2800**

**Permit Contact Person for the Facility**

**Name: Steve Roe**

**Title: General Manager**

**Mailing Address: 4808 F Avenue, Marcus, IA 51035**

**Phone #: (712) 376-2800**

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

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

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Lori Hanson, Supervisor of Air Operating Permits Section

Date

# Table of Contents

<b>I. Facility Description and Equipment List .....</b>	<b>4</b>
<b>II. Plant - Wide Conditions.....</b>	<b>6</b>
<b>III. Emission Point Specific Conditions .....</b>	<b>10</b>
<b>IV. General Conditions.....</b>	<b>91</b>
G1. Duty to Comply	
G2. Permit Expiration	
G3. Certification Requirement for Title V Related Documents	
G4. Annual Compliance Certification	
G5. Semi-Annual Monitoring Report	
G6. Annual Fee	
G7. Inspection of Premises, Records, Equipment, Methods and Discharges	
G8. Duty to Provide Information	
G9. General Maintenance and Repair Duties	
G10. Recordkeeping Requirements for Compliance Monitoring	
G11. Evidence used in establishing that a violation has or is occurring.	
G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification	
G13. Hazardous Release	
G14. Excess Emissions and Excess Emissions Reporting Requirements	
G15. Permit Deviation Reporting Requirements	
G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations	
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification	
G18. Duty to Modify a Title V Permit	
G19. Duty to Obtain Construction Permits	
G20. Asbestos	
G21. Open Burning	
G22. Acid Rain (Title IV) Emissions Allowances	
G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements	
G24. Permit Reopenings	
G25. Permit Shield	
G26. Severability	
G27. Property Rights	
G28. Transferability	
G29. Disclaimer	
G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification	
G31. Prevention of Air Pollution Emergency Episodes	
G32. Contacts List	
<b>V. Appendix - Links to Standards.....</b>	<b>105</b>

## Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulations
CE .....	control equipment
CEM.....	continuous emissions monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP .....	emission point
EU .....	emission unit
gr./dscf .....	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS .....	new source performance standard
NESHAP.....	national emission standard for hazardous air pollutants
ppmv .....	parts per million by volume
lb./hr .....	pounds per hour
lb./MMBtu .....	pounds per million British thermal units
SCC .....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC.....	Standard Industrial Classification
TPY .....	tons per year
USEPA.....	United States Environmental Protection Agency

### Pollutants

PM.....	particulate matter
PM <sub>10</sub> .....	particulate matter ten microns or less in diameter
SO <sub>2</sub> .....	sulfur dioxide
NO <sub>x</sub> .....	nitrogen oxides
VOC.....	volatile organic compound
CO .....	carbon monoxide
HAP.....	hazardous air pollutant

# I. Facility Description and Equipment List

Facility Name: Little Sioux Corn Processors, LLLP

Permit Number: 10-TV-005R1-M001

Facility Description: Denatured Ethanol Plant (SIC 2869)

## Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-S10	EU-B10	DDGS Dryer A & B and Distillation Process	01-A-545-S12
	EU-P50	Waste Heat Recovery Boiler	
EP-S10B	EU-P50B	DDGS Dryer A & B and Distillation Process	06-A-797-S4
	EU-B10B	Waste Heat Recovery Boiler	
EP S15	EU-P15	Grain Receiving, Storage, and Handling System	01-A-546-S7
EP S20	EU-S20	Grain Receiving, Storage, and Handling System	14-A-410-S2
EP S30	EU-P30	Hammermills	06-A-131-S2
EP S35	EU-P35	Scalper and Elevator Leg	15-A-487
EP-S40	EU-P40	10 Fermentation Process Vessels and Beer Well	01-A-548-S11
	EU-P41	CO2 Degasification System	
EP-S70	EU-S70	DDGS Cooler	01-A-550-S9
EP-S70B	EU-S70B	DDGS Cooler	06-A-798-S5
EP S90	EU-S90	DDGS Loading and Baghouse	03-A-546-S4
EP F80	EU-F80	Cooling Tower	05-A-750-S1
EP F80B	EU-F80B	Cooling Tower	06-A-799-S1
EP-S22	EU-22	Truck and Railcar Product Loadout	03-A-541-S8
EP F95	EU-F95	Equipment Leaks	05-A-752-S2
EP F100	EU-F100	Plant Haul Roads	06-A-808-S1
EP T62	EU-T62	Ethanol Storage Tank	01-A-552-S2
EP T63	EU-T63	Ethanol Storage Tank	14-A-520-S1
EP T610A	EU-T610A	Ethanol Storage Tank	06-A-800-S2
EP T610B	EU-T610B	Ethanol Storage Tank	06-A-801-S2
EP T620A	EU-T620A	Ethanol Storage Tank	06-A-802-S2
EP T630A	EU-T630A	200 Proof Ethanol Storage Tank	06-A-804-S1
EP T640	EU-T640	Denaturant Storage Tank	06-A-806-S2
EP T650	EU-T650	190 Proof Ethanol Storage Tank	06-A-807-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>
F110	GS Clean Tech and Tricanter Corn Oil Recovery System
T660	Corrosion Inhibitor Tank

## II. Plant-Wide Conditions

Facility Name: Little Sioux Corn Processors, LLLP  
Permit Number: 10-TV-005R1-M001

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

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### Permit Duration

The term of this permit is: 5 years  
Commencing on:  
Ending on:

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:*

Single Hazardous Air Pollutant (Single HAP): 8.75 ton/yr

Authority for Requirement: DNR Construction Permits 01-A-545-S12, 06-A-797-S4,  
01-A-548-S11, 01-A-550-S9, 06-A-798-S4, 03-A-546-S4

Total Hazardous Air Pollutant (Total HAP): 22.70 ton/yr

Authority for Requirement: DNR Construction Permits 01-A-545-S12, 06-A-797-S4,  
01-A-548-S11, 01-A-550-S9, 06-A-798-S4, 03-A-546-S4

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

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or

amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).  
Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

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

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

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#### **40 CFR Part 60 Subpart A Requirements**

This facility is an affected source and these *General Provisions* apply to the facility. The affected units are EU B10, EU P15, EU S20, EU T62, EU T63, EU T610a, EU T610b, EU T620a, EU T630a, EU T640, EU T650, and F95.

See Appendix for a link to the Standard.

Authority for Requirements: 40 CFR 60 Subpart A

567 IAC 23.1(2)

**40 CFR Part 60 Subpart Db Requirements**

This facility is subject to Standards of Performance for *Industrial Commercial Institutional Steam Generating Units*. The affected unit is EU B10 (Waste Heat Boiler).

See Appendix for a link to the Standard.

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

**40 CFR Part 60 Subpart Kb Requirements**

This facility is subject to Standards of Performance for *Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)* for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. The affected units are EU T62, EU T63, EU T610a, EU T610b, EU T620a, EU T630a, EU T640, and EU T650.

See Appendix for a link to the Standard.

Authority for Requirements: 40 CFR 60 Subpart Kb  
567 IAC 23.1(2) "ddd"

**40 CFR Part 60 Subpart DD**

This facility is subject to Standards of Performance for *Grain Elevators* (40 CFR 60.300 through 40 CFR 60.304). The affected unit is EU S20.

See Appendix for a link to the Standard.

Authority for Requirements: 40 CFR 60 Subpart DD  
567 IAC 23.1(2) "ad"

**40 CFR Part 60 Subpart VV Requirements**

The facility is subject to Standards of Performance for *Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry* for Which Construction, Reconstruction or Modification Commenced After January 5, 1981, and on or Before November 7, 2006 (40 CFR 60.480 through 40 CFR 60.489). The affected units are equipment in VOC service and any applicable devices and systems (as defined in 40 CFR 60.481) in the entire facility. The owner or operator shall comply with the applicable requirements in 40 CFR 60.480 through 60.489, including recordkeeping requirements in 40 CFR 60.486 and reporting requirements in 40 CFR 60.487.

See Appendix for a link to the Standard.

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



**40 CFR Part 63 Subpart A Requirements**

This facility is an affected source and these *General Provisions* apply to the facility. The affected units are EU 22 and EU F50.

See Appendix for a link to the Standard.

Authority for Requirements: 40 CFR 63 Subpart A

567 IAC 23.1(4)

**40 CFR Part 63 Subpart BBBB Requirements**

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for Source Category: *Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities* (40 CFR 63.11080 through 40 CFR 63.11100). The affected units are EU 22 and EU F50.

See Appendix for a link to the Standard.

Authority for Requirements: 40 CFR 63 Subpart BBBB

567 IAC 23.1(4)"eb"

### III. Emission Point-Specific Conditions

Facility Name: Little Sioux Corn Processors, LLLP  
 Permit Number: **10-TV-005R1-M001**

#### Emission Point ID Number: EP-S10

##### Associated Equipment

Associated Emission Unit ID Numbers: EU-B10, EU-P50  
 Continuous Emissions Monitors ID Numbers: ME-01

Emission Unit ID	Emission Unit Description	Raw Material/Fuel	Rated Capacity	Control Equipment
B10	Waste Heat Recovery Boiler <sup>(1)</sup>	Natural Gas/Biogas	141 MMBtu/hr	NA
P50	DDGS Dryer A	DDGS/Natural Gas/Biogas	40 MMBtu/hr	Thermal Oxidizer, CE-C10 (141 MMBtu/hr)
	DDGS Dryer B	DDGS/Natural Gas/Biogas	40 MMBtu/hr	
	Distillation Process			
	Yeast Tank #1	Yeast	20,000 gallons	
	Yeast Tank #2	Yeast	17,000 gallons	
	Slurry Tank #1	Mash	16,000 gallons	
	Slurry Tank #2	Mash	16,000 gallons	
	Centrate Tank	Centrifuge Feed	1,000 gallons	or  Regenerative Thermal Oxidizer, CE-C10C (5 MMBtu/hr)
	Centrifuges #1-5	Whole Stillage	175 gal/min each	
	Centrate Blower	Air	Unknown	
	Cip Tank	Cleaning Solution	18,000 gallons	
	50% Caustic Tank	Caustic	14,000 gallons	
	Waste Cip Tank	Cleaning Waste	13,000 gallons	
	Acid Wash Tank	Acid Wash	2,200 gallons	
	Cook Tank	Beer	4,722 gallons	
Regen Tank	Beer	600 gallons		

<sup>(1)</sup> The Waste Heat Recovery Boiler (EU-B10) does not combust fuel or generate emissions. The boiler produces steam from the heat generated by the Thermal Oxidizer (CE-C10), which provides a maximum heat rate of 141 MMBtu/hr to the waste heat recovery boiler.

## Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 01-A-545-S12  
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: Particulate Matter (PM<sub>2.5</sub>)

Emission Limit(s): 4.01 lb/hr

Authority for Requirement: DNR Construction Permit 01-A-545-S12

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

Emission Limit(s): 4.01 lb/hr

Authority for Requirement: DNR Construction Permit 01-A-545-S12

Pollutant: Particulate Matter (PM)

Emission Limit(s): 4.01 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 01-A-545-S12  
567 IAC 23.4(7)

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

Emission Limit(s): 10.02 lb/hr; 500 ppm

Authority for Requirement: DNR Construction Permit 01-A-545-S12  
567 IAC 23.3(3)"e"

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

Emission Limit(s): 19.89 lb/hr; 0.1 lb/MMBtu <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 01-A-545-S12  
567 IAC 23.1(2)"ccc"  
40 CFR §60.44b

<sup>(2)</sup> As indicated in 40 CFR §60.44b(h) and §60.44b(h)(i), compliance with this limit is determined on a 30-day rolling average basis and applies at all times, including periods of startup, shutdown, and malfunction.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 6.5 lb/hr

Authority for Requirement: DNR Construction Permit 01-A-545-S12

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 15.58 lb/hr  
Authority for Requirement: DNR Construction Permit 01-A-545-S12

Pollutant: Single Hazardous Air Pollutant (Single HAP)  
Emission Limit(s): 2.14 lb/hr; 8.75 tons/yr <sup>(2)</sup>  
Authority for Requirement: DNR Construction Permit 01-A-545-S12

Pollutant: Total Hazardous Air Pollutant (Total HAP)  
Emission Limit(s): 5.57 lb/hr; 22.70 tons/yr <sup>(2)</sup>  
Authority for Requirement: DNR Construction Permit 01-A-545-S12

<sup>(2)</sup> Emission limits requested by facility to limit potential HAP emissions from DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90).

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

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

### **HAP Emission Cap Requirements**

- 1) The owner or operator shall calculate monthly HAP emissions for all sources covered under the HAP emission limit cap: DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90) (hereafter referred to as "***all emission limit cap sources***"), by using the following formula:  $\text{HAP (tons/month)} = (\text{average pound per hour emissions rate determined from the most recent performance test for HAP}) * (\text{total hours operation per month}) * 1 \text{ ton}/2000 \text{ lbs}$ .
- 2) The owner or operator shall retain the most recent stack test for *all emission limit cap sources* that demonstrated compliance on site and utilize such data for the 12-month or 365-day rolling total calculations. The permittee shall use the average pound per emission rate as determined by the performance test.
- 3) The permittee (or owner or operator) shall maintain the following daily records:
  - i. The owner or operator shall record the number of hours that *all emission limit cap sources* (S10, S10B, S40, S70, S70B, and S90) are operated on a daily basis.
- 4) The permittee shall maintain the following monthly records:
  - i. The owner or operator shall record the number of hours that *all emission limit cap sources* are operated on a monthly basis.
  - ii. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.
  - iii. The 12-month rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.

- iv. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - v. The 12-month rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
- 5) If the 12-month rolling total of all Total HAP emissions exceeds 17.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
- i. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.
  - ii. The 365-day rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.

Daily calculations of all Total HAP emissions shall continue until the 365-day rolling total of the amount of all Total HAP emissions from *all emission limit cap sources* drops below 17.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of Total HAP emissions will cease. If the emissions once again exceed 17.5 tons, daily recordkeeping will be required per paragraph 5) above.

- 6) If the 12-month rolling total of any Single HAP emitted exceeds 6.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
- i. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - ii. The 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.

Daily calculations of Single HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources* drops below 6.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each Single HAP will cease. If the emissions once again exceed 6.5 tons, daily recordkeeping will be required per paragraph 6) above.

### **General Requirements**

- 7) The owner or operator shall inspect, operate, and maintain the DDGS Dryers (EU-P10), the Thermal Oxidizer (CE-C10), and Regenerative Thermal Oxidizer (CE-C10C), and the Waste Heat Recovery Boiler (EU-B10) according to manufacturer's recommendations.
- a. The owner or operator shall maintain records of control equipment inspections and maintenance.
- 8) The DDGS Dryers (EU-P10), Thermal Oxidizer (CE-C10), and Regenerative Thermal Oxidizer (CE-C10C) shall combust only natural gas and/or process off-gases.

### **Control Equipment Requirements**

- 9) Thermal Oxidizer (CE-C10) or Thermal Oxidizer (CE-C10)/Regenerative Thermal Oxidizer (CE-C10C) combination shall maintain a temperature (3-hour average) during operation of no less than 50 degrees Fahrenheit below the average temperature of the

Thermal Oxidizer (CE-C10) or the Thermal Oxidizer (CE-C10)/Regenerative Thermal Oxidizer (CE-C10C) combination recorded during the most recent performance tests which demonstrated compliance with the VOC and HAP emission limits.

- a. The owner or operator shall retain the most recent stack tests for the Thermal Oxidizer (CE-C10) or Thermal Oxidizer (CE-C10)/Regenerative Thermal Oxidizer (CE-C10C) combination that demonstrated compliance with the VOC and HAP emission limits. The permittee shall document the average temperature of the Thermal Oxidizer (CE-C10) or the Thermal Oxidizer (CE-C10)/Regenerative Thermal Oxidizer (CE-C10C) combination recorded during those tests, and calculate and document the minimum temperature the Thermal Oxidizer (CE-C10) or the Thermal Oxidizer (CE-C10)/Regenerative Thermal Oxidizer (CE-C10C) combination shall operate above (50 degrees Fahrenheit below the highest average temperature recorded during either the VOC or HAP performance tests).
  - b. The owner or operator shall maintain hourly records of the operating temperature of Thermal Oxidizer (CE-C10) or Thermal Oxidizer (CE-C10)/Regenerative Thermal Oxidizer (CE-C10C) combination and record all three-hour periods (during actual operation) of the average operating temperature of Thermal Oxidizer (CE-C10) or Thermal Oxidizer (CE-C10)/Regenerative Thermal Oxidizer (CE-C10C) combination.
- 10) The owner or operator shall operate both the Thermal Oxidizer (CE-C10) and Regenerative Thermal Oxidizer (CE-C10C) when the facility is producing dried distillers grain with solubles (DDGS). When the facility is producing modified wet distillers grains with solubles (MWDGS), only the Thermal Oxidizer (CE-C10) is required to be in operation. The Thermal Oxidizer (CE-C10) shall be operated at all times the DDGS Dryers (EU-P10) or distillation equipment is being operated.
- a. The owner or operator shall record the date and duration that Regenerative Thermal Oxidizer (CE-C10C) is not in operation while the facility is producing MWDGS.
- 11) The owner or operator shall maintain records of the frequency and amount of time that Thermal Oxidizer (CE-C10) or Regenerative Thermal Oxidizer (CE-C10C) malfunctions and shall estimate and record the emissions emitted during said malfunctions. The owner or operator does not need to estimate emissions when Regenerative Thermal Oxidizer (CE-C10C) malfunctions and the facility is producing only MWDGS. All excess emission reporting shall be conducted in accordance with 567 IAC 24.1.

### **NSPS Subpart Db Requirements**

- 12) The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subpart Db – *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units* [§60.40b to §60.49b], including those not specifically mentioned in this permit. If differences in language are found between this permit and Subpart Db, the language specified in Subpart Db shall be considered correct.
- 13) As indicated in 40 CFR §60.49b(d)(1), the owner or operator shall record and maintain records of the amounts of each fuel combusted in the thermal oxidizer/heat recovery boiler system during each day. In addition, the owner or operator shall calculate the

annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Per 40 CFR §60.41b, the *annual capacity factor* is defined as the ratio between the actual heat input to a steam generating unit from during a calendar year and the potential heat input to the steam generating unit had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.

- 14) As indicated in 40 CFR §60.49b(g), the permittee shall maintain records of the following information for each steam generating unit operating day. The permittee shall submit this information in a report, as required in 40 CFR §60.49b(i).
- i. Calendar date;
  - ii. The average hourly NO<sub>x</sub> emission (as NO<sub>2</sub>) rates measured;
  - iii. The 30-day average NO<sub>x</sub> emission rates calculated at the end of each steam generating unit operating day from the measured hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
  - iv. Identification of the steam generating unit operating days when the calculated 30-day average NO<sub>x</sub> emission rates are in excess of the NO<sub>x</sub> emission standard under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;
  - v. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
  - vi. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
  - vii. Identification of the “F” factor used for calculations, method of determination, and type of fuel combusted;
  - viii. Identification of the times when the pollutant concentration exceeded full span of the continuous emissions monitoring system (CEMS);
  - ix. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and
  - x. Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR Appendix F, Procedure 1.

Authority for Requirement: DNR Construction Permit 01-A-545-S12

### **NSPS and NESHAP Requirements**

The thermal oxidizer/waste heat recovery boiler system is subject to the requirements in 40 CFR Part 60, Subpart A – *General Provisions* [567 IAC 23.1(2)] and 40 CFR Part 60, Subpart Db – *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units* [567 IAC 23.1(2)“ccc”].

Authority for Requirement: DNR Construction Permit 01-A-545-S12  
40 CFR Part 60 Subpart Db  
567 IAC 23.1(2)"ccc"

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 125  
Stack Opening, (inches, dia.): 84.3  
Exhaust Flow Rate (scfm): 71,500  
Exhaust Temperature (°F): 265  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 01-A-545-S12

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

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – Particulate Matter (PM)  
Stack Test to be Completed by – July 18, 2018  
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 – Volatile Organic Compounds (VOC) <sup>(1)</sup>  
Stack Test to be Completed by – Every 3 years <sup>(2)</sup>  
Test Method – 40 CFR 60, Appendix A, Method 18  
40 CFR 63, Appendix A, Method 320  
Authority for Requirement – DNR Construction Permit 01-A-545-S12

Pollutant – Hazardous Air Pollutants (HAP) <sup>(1)(4)</sup>  
Stack Test to be Completed by – Annually <sup>(3)</sup>  
Test Method – 40 CFR 60, Appendix A, Method 18  
40 CFR 63, Appendix A, Method 320  
Authority for Requirement – DNR Construction Permit 01-A-545-S12

- (1) These tests shall be conducted once each calendar year during the months of June, July, or August and conducted in a manner to verify compliance with all emission limitations with all equipment operating in a worst case scenario (highest production rate, syrup rate, etc.).
- (2) The initial test shall be completed within 180 days of the issuance of DNR Construction Permit 01-A-545-S11. The facility shall conduct stack testing for the indicated pollutant on EP-S10 at least once every 3 calendar years.
- (3) The initial test shall be completed within 180 days of the issuance of DNR Construction Permit 01-A-545-S11. The facility shall conduct stack testing for the indicated pollutants on EP-S10 at



- least once each calendar year.
- (4) Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically, any HAP whose emissions are measured below the detection limit shall be assumed to be emitted at the detection level.

### **Continuous Emissions Monitoring:**

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

Operational Specifications – 40 CFR 60, Appendix B

Date of Initial System Calibration and Quality Assurance – 03/2012

Ongoing System Calibration/Quality Assurance – 40 CFR 60, Appendix B

Reporting & Record keeping - 40 CFR 60, Appendix B

Authority for Requirement – 567 IAC 25.1 (9)

The owner or operator shall continuously monitor the emissions of nitrogen oxides (NO<sub>x</sub>) discharged to the atmosphere through EP-S10, as required by 40 CFR Part 60, Subpart Db – *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units* [§60.40b to §60.49b]. Therefore, the owner or operator shall comply with the applicable monitoring requirements in Subpart Db, including those not specifically mentioned in this section. If differences in language are found between this permit and Subpart Db, the language specified in Subpart Db shall be considered correct. The following is a summary of the requirements that apply to the CEMS for the NSPS emission standards in this permit:

- The NO<sub>x</sub> CEMS shall be operated and data collected as required under 40 CFR §60.48b(b), (c), (d), and (e).
- The CEMS required for NO<sub>x</sub> shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.
- The 1-hour average NO<sub>x</sub> emission rates measured by the NO<sub>x</sub> CEMS required by 40 CFR 60.48b(b) and required under 40 CFR 60.13(h) shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emissions rates under 40 CFR 60.44b. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2).
- The procedures under 40 CFR §60.13 shall be followed for installation, evaluation, and operation of the CEMS.
- The CEMS shall also be installed, evaluated, operated and data collected to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 2 (PS2) – *Specifications and Test Procedures for SO<sub>2</sub> and NO<sub>x</sub> Continuous Emission Monitoring Systems in Stationary Sources*. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall also apply.
- Per 40 CFR 60.49b(f), when NO<sub>x</sub> emissions are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained by using standby monitoring systems, 40 CFR Part 60 Appendix A Method 7, 40 CFR Part 60 Appendix A Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating

unit operating days.

Authority for Requirement: DNR Construction Permit 01-A-545-S12

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: EP-S10B**

Associated Equipment

Associated Emission Unit ID Numbers: EU-P10B, EU-P50B

Continuous Emissions Monitors ID Numbers: ME-02

<b>Emission Unit ID</b>	<b>Emission Unit Description</b>	<b>Raw Material/Fuel</b>	<b>Rated Capacity</b>	<b>Control Equipment</b>	
B10B	Waste Heat Recovery Boiler <sup>(1)</sup>	Natural Gas/Biogas	141 MMBtu/hr	NA	
P50B	DDGS Dryer A	DDGS/Natural Gas/Biogas	45 MMBtu/hr	Thermal Oxidizer, CE-C10B (122 MMBtu/hr)	
	DDGS Dryer B	DDGS/Natural Gas/Biogas	45 MMBtu/hr		
	Distillation Process				
	Yeast Tank #1	Yeast	20,000 gallons		
	Yeast Tank #2	Yeast	17,000 gallons		
	Slurry Tank #1	Mash	16,000 gallons		
	Slurry Tank #2	Mash	16,000 gallons		
	Centrate Tank	Centrifuge Feed	1,000 gallons		
	Centrifuges #6-10	Whole Stillage	175 gal/min each		
	Centrate Blower	Air	Unknown		
	Cip Tank	Cleaning Solution	18,000 gallons		
	50% Caustic Tank	Caustic	14,000 gallons		
	Waste Cip Tank	Cleaning Waste	13,000 gallons		
	Acid Wash Tank	Acid Wash	2,200 gallons		
	Cook Tank	Beer	5,300 gallons		
Regen Tank	Beer	600 gallons			

**Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 06-A-797-S4  
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: Particulate Matter (PM<sub>2.5</sub>)  
Emission Limit(s): 4.01 lb/hr  
Authority for Requirement: DNR Construction Permit 06-A-797-S4

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 4.01 lb/hr  
Authority for Requirement: DNR Construction Permit 06-A-797-S4

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 4.01 lb/hr; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 06-A-797-S4  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 10.02 lb/hr; 500 ppmv  
Authority for Requirement: DNR Construction Permit 06-A-797-S4  
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 19.89 lb/hr; 0.10 lb/MMBtu<sup>(2)</sup>  
Authority for Requirement: DNR Construction Permit 06-A-797-S4  
567 IAC 23.1(2)"ccc"  
40 CFR §60.44b

<sup>(2)</sup> Compliance is determined on a 30-day rolling average basis, and applies at all times, including periods of startup, shutdown and malfunction – 40 CFR 60.44(h)(i) and (l).

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 6.50 lb/hr  
Authority for Requirement: DNR Construction Permit 06-A-797-S4

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 15.58 lb/hr  
Authority for Requirement: DNR Construction Permit 06-A-797-S4

Pollutant: Single Hazardous Air Pollutant (Single HAP)  
Emission Limit(s): 2.14 lb/hr; 8.75 tons/yr<sup>(3)</sup>  
Authority for Requirement: DNR Construction Permit 06-A-797-S4

Pollutant: Total Hazardous Air Pollutant (Total HAP)  
Emission Limit(s): 5.57 lb/hr; 22.70 tons/yr<sup>(3)</sup>  
Authority for Requirement: DNR Construction Permit 06-A-797-S4

<sup>(3)</sup> Emission limits requested by facility to limit potential HAP emissions from DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90).

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

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner*

### **HAP Emission Cap Requirements**

- 1) The owner or operator shall calculate monthly HAP emissions for all sources covered under the HAP emission limit cap: DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90) (hereafter referred to as "***all emission limit cap sources***"), by using the following formula: HAP (tons/month) = (average pound per hour emissions rate determined from the most recent performance test for HAP)\*(total hours operation per month)\*1 ton/2000 lbs).
- 2) The owner or operator shall retain the most recent stack test for *all emission limit cap sources* that demonstrated compliance on site and utilize such data for the 12-month or 365-day rolling total calculations. The permittee shall use the average pound per emission rate as determined by the performance test.
- 3) The permittee (or owner or operator) shall maintain the following daily records:
  - ii. The owner or operator shall record the number of hours that *all emission limit cap sources* (S10, S10B, S40, S70, S70B, and S90) are operated on a daily basis.
- 4) The permittee shall maintain the following monthly records:
  - i. The owner or operator shall record the number of hours that *all emission limit cap sources* are operated on a monthly basis.
  - ii. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.
  - iii. The 12-month rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.
  - iv. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - v. The 12-month rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
- 5) If the 12-month rolling total of all Total HAP emissions exceeds 17.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.
  - ii. The 365-day rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.

Daily calculations of all Total HAP emissions shall continue until the 365-day rolling total of the amount of all Total HAP emissions from *all emission limit cap sources* drops below 17.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of Total HAP emissions will cease. If the emissions once again exceed 17.5 tons, daily recordkeeping will be required per paragraph 5) above.

- 6) If the 12-month rolling total of any Single HAP emitted exceeds 6.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
- i. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - ii. The 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
- Daily calculations of Single HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources* drops below 6.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each Single HAP will cease. If the emissions once again exceed 6.5 tons, daily recordkeeping will be required per paragraph 6) above.

### **General Requirements**

- 7) The owner or operator shall inspect, operate, and maintain the DDGS Dryers (EU-P10B), the Thermal Oxidizer (CE-C10B), and the Waste Heat Recovery Boiler (EU-B10B) according to manufacturer's recommendations.
- a. The owner or operator shall maintain records of control equipment inspections and maintenance.
- 8) The DDGS Dryers (EU-P10B) and the Thermal Oxidizer (CE-C10B) shall combust only natural gas and/or process off-gases.

### **Control Equipment Requirements**

- 9) Thermal Oxidizer (CE-C10B) shall maintain a temperature (3-hour average) during operation of no less than 50 degrees Fahrenheit below the average temperature of the Thermal Oxidizer (CE-C10B) recorded during the most recent performance tests which demonstrated compliance with the VOC and HAP emission limits. The main thermal oxidizer shall be operated at all times the dryers or distillation equipment is being operated.
- a. The owner or operator shall retain the most recent stack tests for the Thermal Oxidizer (CE-C10B) that demonstrated compliance with the VOC and HAP emission limits. The permittee shall document the average temperature of the Thermal Oxidizer (CE-C10B) during those tests, and calculate and document the minimum temperature the Thermal Oxidizer (CE-C10B) shall operate above (50 degrees Fahrenheit below the highest average temperature recorded during either the VOC or HAP performance tests).
  - b. The owner or operator shall maintain hourly records of the operating temperature of Thermal Oxidizer (CE-C10B) and record all three-hour periods (during actual operation) of the average operating temperature of Thermal Oxidizer (CE-C10B).
- 10) The owner or operator shall keep records of the frequency and amount of time the Thermal Oxidizer (CE-C10B) malfunctions and record estimates of emissions during said malfunctions. All excess emission reporting shall be conducted in accordance with 567 IAC 24.1.

## **NSPS Subpart Db Requirements**

- 11) The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subpart Db – *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units* [§60.40b to §60.49b], including those not specifically mentioned in this permit. If differences in language are found between this permit and Subpart Db, the language specified in Subpart Db shall be considered correct.
- 12) As indicated in 40 CFR §60.49b(d)(1), the owner or operator shall record and maintain records of the amounts of each fuel combusted in the thermal oxidizer/heat recovery boiler system during each day. In addition, the owner or operator shall calculate the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Per 40 CFR §60.41b, the *annual capacity factor* is defined as the ratio between the actual heat input to a steam generating unit from during a calendar year and the potential heat input to the steam generating unit had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.
- 13) As indicated in 40 CFR §60.49b(g), the permittee shall maintain records of the following information for each steam generating unit operating day. The permittee shall submit this information in a report, as required in 40 CFR §60.49b(i).
  - i. Calendar date;
  - ii. The average hourly NO<sub>x</sub> emission (as NO<sub>2</sub>) rates measured;
  - iii. The 30-day average NO<sub>x</sub> emission rates calculated at the end of each steam generating unit operating day from the measured hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
  - iv. Identification of the steam generating unit operating days when the calculated 30-day average NO<sub>x</sub> emission rates are in excess of the NO<sub>x</sub> emission standard under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;
  - v. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
  - vi. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
  - vii. Identification of the “F” factor used for calculations, method of determination, and type of fuel combusted;
  - viii. Identification of the times when the pollutant concentration exceeded full span of the continuous emissions monitoring system (CEMS);
  - ix. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and
  - x. Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR Appendix F, Procedure 1.

Authority for Requirement: DNR Construction Permit 06-A-797-S4

## **NSPS and NESHAP Requirements**

The waste heat boiler is subject to NSPS Subpart A (General Provisions, 40 CFR 60.1 through 40 CFR 60.19) and Subpart Db – Standards of Performance for *Industrial-Commercial-Institutional Steam Generating Units*, 40 CFR 60.40b through 40 CFR 60.49(b) and Subpart A (*General Provisions*, 40 CFR 60.1 through 40 CFR 60.19).

Authority for Requirement: DNR Construction Permit 06-A-797-S4  
40 CFR Part 60 Subpart Db  
567 IAC 23.1(2)"ccc"

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 125

Stack Opening, (inches, dia.): 84.3

Exhaust Flow Rate (scfm): 76,480

Exhaust Temperature (°F): 265

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-797-S4

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

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – Particulate Matter (PM)

Stack Test to be Completed by – July 18, 2018

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 – Volatile Organic Compounds (VOC) <sup>(1)</sup>

Stack Test to be Completed by – Every 3 years <sup>(2)</sup>

Test Method – 40 CFR 60, Appendix A, Method 18

40 CFR 63, Appendix A, Method 320

Authority for Requirement – DNR Construction Permit 06-A-797-S4



Pollutant – Hazardous Air Pollutants (HAP) <sup>(1) (4)</sup>  
Stack Test to be Completed by – Annually <sup>(3)</sup>  
Test Method – 40 CFR 60, Appendix A, Method 18  
40 CFR 63, Appendix A, Method 320  
Authority for Requirement – DNR Construction Permit 06-A-797-S4

- (1) These tests shall be conducted once each calendar year during the months of June, July, or August and conducted in a manner to verify compliance with all emission limitations with all equipment operating in a worst case scenario (highest production rate, syrup rate, etc.).
- (2) The initial test shall be completed within 180 days of the issuance of DNR Construction Permit 06-A-797-S4. The facility shall conduct stack testing for the indicated pollutant on EP-S10B at least once every 3 calendar years.
- (3) The initial test shall be completed within 180 days of the issuance of DNR Construction Permit 06-A-797-S4. The facility shall conduct stack testing for the indicated pollutants on EP-S10B at least once each calendar year.
- (4) Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically, any HAP whose emissions are measured below the detection limit shall be assumed to be emitted at the detection level.

### **Continuous Emissions Monitoring:**

Pollutant – Nitrogen Oxides (NO<sub>x</sub>)  
Operational Specifications – 40 CFR 60 Appendix B  
Date of Initial System Calibration and Quality Assurance – 5/21/2008  
Ongoing System Calibration/Quality Assurance - 40 CFR 60 Appendix B  
Reporting & Record keeping - 40 CFR 60 Appendix B  
Authority for Requirement – DNR Construction Permit 06-A-797-S4

The owner or operator shall continuously monitor the emissions of nitrogen oxides (NO<sub>x</sub>) discharged to the atmosphere through EP-S10B, as required by 40 CFR Part 60, Subpart Db – *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units* [§60.40b to §60.49b]. Therefore, the owner or operator shall comply with the applicable monitoring requirements in Subpart Db, including those not specifically mentioned in this section. If differences in language are found between this permit and Subpart Db, the language specified in Subpart Db shall be considered correct. The following is a summary of the requirements that apply to the CEMS for the NSPS emission standards in this permit:

- The NO<sub>x</sub> CEMS shall be operated and data collected as required under 40 CFR §60.48b(b), (c), (d), and (e).
- The CEMS required for NO<sub>x</sub> shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.
- The 1-hour average NO<sub>x</sub> emission rates measured by the NO<sub>x</sub> CEMS required by 40 CFR 60.48b(b) and required under 40 CFR 60.13(h) shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emissions rates under 40 CFR 60.44b. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2).

- The procedures under 40 CFR §60.13 shall be followed for installation, evaluation, and operation of the CEMS.
- The CEMS shall also be installed, evaluated, operated and data collected to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 2 (PS2) – *Specifications and Test Procedures for SO<sub>2</sub> and NO<sub>x</sub> Continuous Emission Monitoring Systems in Stationary Sources*. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall also apply.
- Per 40 CFR 60.49b(f), when NO<sub>x</sub> emissions are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained by using standby monitoring systems, 40 CFR Part 60 Appendix A Method 7, 40 CFR Part 60 Appendix A Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

*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: EP S15**

Associated Equipment

Associated Emission Unit ID Numbers: EU-P15

<b>Emission Unit ID</b>	<b>Emission Unit Description</b>	<b>Raw Material/Fuel</b>	<b>Rated Capacity</b>	<b>Control Equipment</b>
P15	Grain Receiving Pit	Grain	645 tons/hr	Baghouse CE C15
	Grain Storage Silo		500,000 bushels	
	Grain Storage Silo		500,000 bushels	
	Grain Storage Silo		200,000 bushels	
	Grain Storage Silo		200,000 bushels	

**Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 01-A-546-S7  
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: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 1.38 lb/hr; 11.03 tons/ yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 01-A-546-S7

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.38 lb/hr; 11.03 tons/yr <sup>(2)</sup>; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 01-A-546-S7  
567 IAC 23.4(7)

<sup>(2)</sup> This limit applies to grain handling, and includes emissions from EP S15 and also uncaptured emissions from grain receiving, assuming 20% are not captured and based on the operating limits on the amount of grain received.

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.
- B. A maximum of 1,475,600 tons of corn per twelve month rolling period may be received by the plant.

#### **Reporting & Record keeping**

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

- A. The owner or operator shall maintain a record of all inspections / maintenance and any action resulting from the inspection / maintenance of the control equipment.
- B. The owner or operator shall keep records of the amount of corn received (in tons), and update the twelve month rolling period on a monthly basis.

Authority for Requirement: DNR Construction Permit 01-A-546-S7

### **Emission Point Characteristics**

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

Stack Height (ft, from the ground): 25

Stack Opening (inches, dia.): 36

Exhaust Flow Rate (scfm): 26,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 01-A-546-S7

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

**Monitoring Requirements**

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

**Stack Testing:**

Pollutant – Particulate Matter (PM<sub>10</sub>)  
Stack Test to be Completed by – July18, 2018  
Test Method – 40 CFR 51, Appendix M, 201A with 202  
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter (PM)  
Stack Test to be Completed by – July18, 2018  
Test Method – 40 CFR 60, Appendix A, Method 5  
40 CFR 51, Appendix M, Method 202  
Authority for Requirement – 567 IAC 22.108(3)

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Compliance Assurance Monitoring Plan

### CAM Plan for EP S15 Baghouse

#### I. Background

##### A. Emissions Unit

Description: Grain Receiving Baghouse  
 Identification: EU-P15  
 Facility: Little Sioux Corn Processors, LLLP  
 4808 F Avenue  
 Marcus, IA 51035

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

Regulation No.: DNR Construction Permit 01-A-546-S7  
 Particulate emission limit: PM/PM<sub>10</sub>: 1.38 lb/hr, 11.03 tpy  
 Opacity emission limit: 40%  
 Current Monitoring requirements:

1. Stack testing
2. Record the amount of corn received (in tons) and update the twelve month rolling period on a monthly basis
3. Daily pressure drop across baghouse
4. Weekly opacity (no visible emissions) readings

##### C. Control Technology

Reverse Air Baghouse operated under negative pressure

#### II. Monitoring Approach

The key elements of the monitoring approach are presented in Table A. The selected performance indicators are baghouse module differential pressure and visible emissions.

Table A – Monitoring Approach

	Indicator #1	Indicator #2
I. Indicator	Differential pressure across baghouse	Visible Emissions
Measurement Approach	Differential pressure measured across the baghouse by a magnetic pressure gauge.	Visible emissions from baghouse exhaust while EU-P15 is operating.
II. Indicator Range	An excursion is defined as a differential pressure reading across the baghouse module outside the acceptable range. The acceptable range is 0.5 – 5 inches water. Excursions	An excursion is defined as any visible emission occurring. Excursions trigger an inspection, corrective action, and a recordkeeping requirement. The inspection

	trigger an inspection, corrective action and a recordkeeping requirement. The inspection that is triggered is a 6 minute visible emissions observation (similar to Method 22).	that is triggered is a 6 minute visible emissions observation (similar to Method 22).
<b>III. Performance Criteria</b>		
A. Data Representativeness	The differential pressure is measured across the baghouse.	Visible emissions observations are made at the emission point and on the external baghouse unit, system ductwork and associated components.
B. Verification of Operational Status	The pressure gauge will be calibrated, operated, and maintained according to the manufacturer's specifications.	Not applicable.
C. QA/QC Practices and Criteria	Pressure gauges will be calibrated, operated, and maintained according to the manufacturer's specifications.	The observer will be trained by Little Sioux Corn Processors, LLLP to detect visible emissions.
D. Monitoring Frequency	The differential pressure will be inspected a minimum of once per day when the baghouse is operating.	No visible emissions (NVE) observations are made at the emission point on a weekly basis.
E. Data Collection Procedures	Results of baghouse differential pressure checks will be recorded. These forms will be kept a minimum of 5 years.	Records shall be maintained for a minimum of 5 years.

**Emission Point ID Number: EP S20**

Associated Equipment

Associated Emission Unit ID Numbers: EU-S20, EU-Sb 1184, EU-Sb 1185

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<b>Emission Unit ID</b>	<b>Emission Unit Description</b>	<b>Raw Material/Fuel</b>	<b>Rated Capacity</b>	<b>Control Equipment</b>
S20	Grain Receiving Pit	Grain	20,000 bushels/hr	Baghouse CE C20
Sb 1184	Grain Storage Silo		737,392 bushels	
Sb 1185	Grain Storage Silo		737,392 bushels	

**Applicable Requirements**

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

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

Pollutant: Opacity

Emission Limit(s): 0% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 14-A-410-S2  
567 IAC 23.1(2)"ooo"

<sup>(1)</sup> Fugitive emissions are limited to 5% opacity from the truck unloading station and 0% from grain handling operations (ref. 40 CFR 60.302"b" and "c").

Pollutant: Particulate Matter (PM<sub>2.5</sub>)

Emission Limit(s): 1.32 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-410-S2

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

Emission Limit(s): 2.45 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-410-S2

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 3.17 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 14-A-410-S2  
567 IAC 23.4(7)

Pollutant: Particulate Matter (PM) – Federal

Emission Limit(s): 0.023 g/dscm

Authority for Requirement: DNR Construction Permit 14-A-410-S2  
567 IAC 23.1(2)"ooo"



### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The owner or operator shall inspect and maintain the baghouse (CE C20) according to manufacturer's specifications.
- B. A maximum of 1,475,600 tons of corn per twelve month rolling period may be received by the plant.

#### **Reporting & Record keeping**

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

- A. The owner or operator shall maintain a record of all inspections, maintenance, and repair of the baghouse (CE C20).
- B. The owner or operator shall keep records of the amount of corn received (in tons), and update the twelve month rolling period on a monthly basis.

Authority for Requirement: DNR Construction Permit 14-A-410-S2

#### **NSPS and NESHAP Requirements**

This unit is subject to the New Source Performance Standards Subpart A – General Provisions and Subpart DD, *Standards of Performance for Grain Elevators*.

Authority for Requirement: DNR Construction Permit 14-A-410-S2  
40 CFR 60 Subpart DD  
567 IAC 23.1(2)"ooo"

#### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 10.6

Stack Opening, (inches, dia.): 40.75 x 27.5

Exhaust Flow Rate (scfm): 26,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 14-A-410-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall

submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

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

#### **Opacity Monitoring**

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>0 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

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

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

Authority for Requirement: 567 IAC 22.108(14)

#### **Stack Testing:**

Pollutant – Particulate Matter (PM<sub>10</sub>)  
Stack Test to be Completed by – July 18, 2018  
Test Method – 40 CFR 51, Appendix M, 201A with 202  
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter (PM) - State  
Stack Test to be Completed by - July 18, 2018  
Test Method – 40 CFR 60, Appendix A, Method 5  
40 CFR 51, Appendix M, Method 202  
Authority for Requirement – 567 IAC 22.108(3)

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Compliance Assurance Monitoring Plan

### CAM Plan for EP S20 Baghouse

#### I. Background

##### A. Emissions Unit

Description: Grain Receiving Baghouse  
 Identification: EU-S20  
 Facility: Little Sioux Corn Processors, LLLP  
 4808 F Avenue  
 Marcus, IA 51035

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

Regulation No.: DNR Construction Permit 14-A-410-S2  
 Particulate emission limit: PM: 3.17 lb/hr, PM<sub>10</sub>: 2.45 lb/hr,  
 PM<sub>2.5</sub>: 1.32 lb/hr

Opacity emission limit: 0%

##### Current Monitoring requirements:

1. Stack testing
2. Weekly opacity (no visible emissions) readings
3. Record the amount of corn received (in tons) and update the twelve month rolling period on a monthly basis
4. Daily pressure drop across baghouse

##### C. Control Technology

Reverse Air Baghouse operated under negative pressure

#### II. Monitoring Approach

The key elements of the monitoring approach are presented in Table A. The selected performance indicators are baghouse module differential pressure and visible emissions.

Table A – Monitoring Approach

	Indicator #1	Indicator #2
I. Indicator	Differential pressure across baghouse	Visible Emissions
Measurement Approach	Differential pressure measured across the baghouse by a magnetic pressure gauge.	Visible emissions from baghouse exhaust while EU-S20 is operating.
II. Indicator Range	An excursion is defined as a differential pressure reading across the baghouse module outside the acceptable range. The acceptable range is 0.5 –	An excursion is defined as any visible emission occurring. Excursions trigger an inspection, corrective action, and a recordkeeping

	5 inches water. Excursions trigger an inspection, corrective action and a recordkeeping requirement. The inspection that is triggered is a 6 minute visible emissions observation (similar to Method 22).	requirement. The inspection that is triggered is a 6 minute visible emissions observation (similar to Method 22).
<b>III. Performance Criteria</b>		
A. Data Representativeness	The differential pressure is measured across the baghouse.	Visible emissions observations are made at the emission point and on the external baghouse unit, system ductwork and associated components.
B. Verification of Operational Status	The pressure gauge will be calibrated, operated, and maintained according to the manufacturer's specifications.	Not applicable.
C. QA/QC Practices and Criteria	Pressure gauges will be calibrated, operated, and maintained according to the manufacturer's specifications.	The observer will be trained by Little Sioux Corn Processors, LLLP to detect visible emissions.
D. Monitoring Frequency	The differential pressure will be inspected a minimum of once per day when the baghouse is operating.	No visible emissions (NVE) observations are made at the emission point on a weekly basis.
E. Data Collection Procedures	Results of baghouse differential pressure checks will be recorded. These forms will be kept a minimum of 5 years.	Records shall be maintained for a minimum of 5 years.

**Emission Point ID Number: EP S30**

Associated Equipment

Associated Emission Unit ID Numbers: EU-P30  
Emissions Control Equipment ID Number: CE C30  
Emissions Control Equipment Description: Baghouse

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Emission Unit vented through this Emission Point: EU-P30  
Emission Unit Description: Four Hammermills  
Raw Material/Fuel: Grain  
Rated Capacity: 170 tons/hr

**Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 40%  
Authority for Requirement: DNR Construction Permit 06-A-131-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup> 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: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 2.74 lb/hr  
Authority for Requirement: DNR Construction Permit 06-A-131-S2

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 2.74 lb/hr; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 06-A-131-S2  
567 IAC 23.4(7)

**Operational Limits & Requirements**

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

**Operating Limits**

A. The owner or operator shall inspect and maintain the control equipment according to manufacturer’s specifications.

### **Reporting & Record keeping**

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

A. The owner or operator shall maintain a record of all inspections / maintenance and any action resulting from the inspection / maintenance of the control equipment.

Authority for Requirement: DNR Construction Permit 06-A-131-S2

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 165

Stack Opening, (inches, dia.): 42

Exhaust Flow Rate (scfm): 32,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-131-S2

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

### **Monitoring Requirements**

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

#### **Stack Testing**

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

Stack Test to be Completed by – July 18, 2018

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

Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter (PM) – State

Stack Test to be Completed by - July 18, 2018

Test Method – 40 CFR 60, Appendix A, Method 5

40 CFR 51, Appendix M, Method 202

Authority for Requirement – 567 IAC 22.108(3)

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)



# Compliance Assurance Monitoring Plan

## CAM Plan for EP S30 Baghouse

### I. Background

#### A. Emissions Unit

Description: Four Hammermills  
 Identification: EU-P30  
 Facility: Little Sioux Corn Processors, LLLP  
 4808 F Avenue  
 Marcus, IA 51035

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

Regulation No.: DNR Construction Permit 06-A-131-S2  
 Particulate emission limit: PM/PM<sub>10</sub>: 2.74 lb/hr  
 Opacity emission limit: 40%  
 Current Monitoring requirements:  
 1. Stack testing  
 2. Weekly opacity (no visible emissions) readings  
 3. Daily pressure drop across baghouse

#### C. Control Technology

Reverse Air Baghouse operated under negative pressure

### II. Monitoring Approach

The key elements of the monitoring approach are presented in Table A. The selected performance indicators are baghouse module differential pressure and visible emissions.

Table A – Monitoring Approach

	Indicator #1	Indicator #2
I. Indicator	Differential pressure across baghouse	Visible Emissions
Measurement Approach	Differential pressure measured across the baghouse by a magnetic pressure gauge.	Visible emissions from baghouse exhaust while EU-P30 is operating.
II. Indicator Range	An excursion is defined as a differential pressure reading across the baghouse module outside the acceptable range. The acceptable range is 0.5 - 5 inches water. Excursions trigger an inspection, corrective action and a	An excursion is defined as any visible emission occurring. Excursions trigger an inspection, corrective action, and a recordkeeping requirement. The inspection that is triggered is a 6 minute

	recordkeeping requirement. The inspection that is triggered is a 6 minute visible emissions observation (similar to Method 22).	visible emissions observation (similar to Method 22).
III. Performance Criteria		
A. Data Representativeness	The differential pressure is measured across the baghouse.	Visible emissions observations are made at the emission point and on the external baghouse unit, system ductwork and associated components.
B. Verification of Operational Status	The pressure gauge will be calibrated, operated, and maintained according to the manufacturer's specifications.	Not applicable.
C. QA/QC Practices and Criteria	Pressure gauges will be calibrated, operated, and maintained according to the manufacturer's specifications.	The observer will be trained by Little Sioux Corn Processors, LLLP to detect visible emissions.
D. Monitoring Frequency	The differential pressure will be inspected a minimum of once per day when the baghouse is operating.	No visible emissions (NVE) observations are made at the emission point on a weekly basis.
E. Data Collection Procedures	Results of baghouse differential pressure checks will be recorded. These forms will be kept a minimum of 5 years.	Records shall be maintained for a minimum of 5 years.

## **Emission Point ID Number: EP-S35**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-P35  
Emissions Control Equipment ID Number: CE C35  
Emissions Control Equipment Description: Baghouse

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Emission Unit vented through this Emission Point: EU-P35  
Emission Unit Description: Scalper and Elevator Leg  
Raw Material/Fuel: Grain  
Rated Capacity: 170 tons/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 15-A-487  
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: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 1.46 lb/hr

Authority for Requirement: DNR Construction Permit 15-A-487

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 15-A-487  
567 IAC 23.4(7)

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

### **Reporting & Record keeping**

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

- A. The owner or operator shall maintain a record of all inspections / maintenance and any action resulting from the inspection / maintenance of the control equipment.

Authority for Requirement: DNR Construction Permit 15-A-487

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 153.8

Stack Opening, (inches, dia.): 10.6 x 6.6

Exhaust Flow Rate (scfm): 1,700

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 15-A-487

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

### **Monitoring Requirements**

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

#### **Stack Testing**

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

Stack Test to be Completed by – July 18, 2018

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

Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter (PM) – State

Stack Test to be Completed by – July 18, 2018

Test Method – 40 CFR 60, Appendix A, Method 5

40 CFR 51, Appendix M, Method 202

Authority for Requirement – 567 IAC 22.108(3)

*The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in*

*the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

# Compliance Assurance Monitoring Plan

## CAM Plan for EP S35 Baghouse

### I. Background

#### A. Emissions Unit

Description: Scalper and Elevator Leg  
 Identification: EU-P35  
 Facility: Little Sioux Corn Processors, LLLP  
 4808 F Avenue  
 Marcus, IA 51035

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

Regulation No.: DNR Construction Permit 15-A-487  
 Particulate emission limit: PM/PM<sub>10</sub>: 0.1 gr/dscf; 1.46 lb/hr  
 Opacity emission limit: 40%  
 Current Monitoring requirements:  
 1. Stack testing  
 2. Daily pressure drop across baghouse  
 3. Weekly opacity (no visible emissions) readings

#### C. Control Technology

Reverse Air Baghouse operated under negative pressure

### II. Monitoring Approach

The key elements of the monitoring approach are presented in Table A. The selected performance indicators are baghouse module differential pressure and visible emissions.

Table A – Monitoring Approach

	Indicator #1	Indicator #2
I. Indicator	Differential pressure across baghouse	Visible Emissions
Measurement Approach	Differential pressure measured across the baghouse by a magnetic pressure gauge.	Visible emissions from baghouse exhaust while EU-P35 is operating.
II. Indicator Range	An excursion is defined as a differential pressure reading across the baghouse module outside the acceptable range. The acceptable range is 0.5 – 5 inches water. Excursions trigger an inspection, corrective action and a	An excursion is defined as any visible emission occurring. Excursions trigger an inspection, corrective action, and a recordkeeping requirement. The inspection that is triggered is a 6 minute

	recordkeeping requirement. The inspection that is triggered is a 6 minute visible emissions observation (similar to Method 22).	visible emissions observation (similar to Method 22).
III. Performance Criteria		
A. Data Representativeness	The differential pressure is measured across the baghouse.	Visible emissions observations are made at the emission point and on the external baghouse unit, system ductwork and associated components.
B. Verification of Operational Status	The pressure gauge will be calibrated, operated, and maintained according to the manufacturer's specifications.	Not applicable.
C. QA/QC Practices and Criteria	Pressure gauges will be calibrated, operated, and maintained according to the manufacturer's specifications.	The observer will be trained by Little Sioux Corn Processors, LLLP to detect visible emissions.
D. Monitoring Frequency	The differential pressure will be inspected a minimum of once per day when the baghouse is operating.	No visible emissions (NVE) observations are made at the emission point on a weekly basis.
E. Data Collection Procedures	Results of baghouse differential pressure checks will be recorded. These forms will be kept a minimum of 5 years.	Records shall be maintained for a minimum of 5 years.

## Emission Point ID Number: EP-S40

### Associated Equipment

Associated Emission Unit ID Numbers: EU-P40, EU-P41

Emission Unit ID	Emission Unit Description	Raw Material/ Fuel	Rated Capacity	Control Equipment
P40	10 Fermentation Process Vessels	Corn Slurry	750,00 gallons, each	Packed Bed Scrubber CE-C40
	Beer Well	Beer	1,800 gals/min	
P41	CO <sub>2</sub> Degasification System	Beer	Beer	

### Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 01-A-548-S11  
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: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.5 lb/hr

Authority for Requirement: DNR Construction Permit 01-A-548-S11

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.5 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 01-A-548-S11  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 17.89 lb/hr

Authority for Requirement: DNR Construction Permit 01-A-548-S11

Pollutant: Single Hazardous Air Pollutants (Single HAP)

Emission Limit(s): 2.14 lb/hr; 8.75 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 01-A-548-S11



Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): 5.57 lb/hr; 22.70 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 01-A-548-S11

<sup>(2)</sup> Emission limits requested by facility to limit potential HAP emissions from DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90).

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

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

### **HAP Emission Cap Requirements**

- 1) The owner or operator shall calculate monthly HAP emissions for all sources covered under the HAP emission limit cap: DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90) (hereafter referred to as "***all emission limit cap sources***"), by using the following formula:  $\text{HAP (tons/month)} = (\text{average pound per hour emissions rate determined from the most recent performance test for HAP}) * (\text{total hours operation per month}) * 1 \text{ ton}/2000 \text{ lbs}$ .
- 2) The owner or operator shall retain the most recent stack test for *all emission limit cap sources* that demonstrated compliance on site and utilize such data for the 12-month or 365-day rolling total calculations. The permittee shall use the average pound per emission rate as determined by the performance test.
- 3) The permittee (or owner or operator) shall maintain the following daily records:
  - iii. The owner or operator shall record the number of hours that the (S10, S10B, S40, S70, S70B, and S90) are operated on a daily basis.
- 4) The permittee shall maintain the following monthly records:
  - i. The owner or operator shall record the number of hours that *all emission limit cap sources* are operated on a monthly basis.
  - ii. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.
  - iii. The 12-month rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.
  - iv. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - v. The 12-month rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
- 5) If the 12-month rolling total of all Total HAP emissions exceeds 17.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.

- ii. The 365-day rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.

Daily calculations of all Total HAP emissions shall continue until the 365-day rolling total of the amount of all Total HAP emissions from *all emission limit cap sources* drops below 17.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of Total HAP emissions will cease. If the emissions once again exceed 17.5 tons, daily recordkeeping will be required per paragraph 5) above.

- 6) If the 12-month rolling total of any Single HAP emitted exceeds 6.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - ii. The 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.Daily calculations of Single HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources* drops below 6.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each Single HAP will cease. If the emissions once again exceed 6.5 tons, daily recordkeeping will be required per paragraph 6) above.

### **Control Equipment Requirements**

- 7) The owner or operator shall inspect and maintain the control equipment according to manufacturer's recommendations.
  - a. The permittee shall maintain a record of all inspections, maintenance, and repair and any action resulting from the inspection and maintenance of the control equipment.
- 8) The control equipment shall be operated at all times any of the equipment controlled by the device is in operation. The facility shall operate the scrubber until the fermentation cycles have been completed during shutdown of the plant.
- 9) The scrubber monitoring requirements shall not apply on the days that the scrubber is not in operation.
- 10) Any additive added to the scrubber liquid during the compliance testing to enhance the removal efficiency of the scrubber shall be added at a rate greater or equal to the rate recorded during the most recent performance test that demonstrated compliance with all applicable emission limitations.
  - a. The facility shall measure and record the rate of additive added (additive feed rate) to the scrubber liquid on a daily basis. This shall include daily measurement of additive (daily draw down) to verify that the pump additive feed rate is greater than or equal to the additive feed rate demonstrated during the most recent performance test.
- 11) The liquid feed rate to the scrubber shall be maintained at no less than 10% below the average liquid feed rate observed during the most recent accepted compliance test which demonstrated compliance with all applicable emission limitations.

- a. The facility shall measure and record the scrubber liquid (water) flow rate on a continuous basis.
- 12) The pressure drop across to the scrubber shall be maintained between 10 to 30 inches of water column under normal conditions.
  - a. The facility shall record the scrubber pressure drop on a continuous basis, and calculate and record the average pressure drop across the scrubber based on 24-hour average.
- 13) The permittee shall maintain a record any corrective action taken for which data show a deviation from the operating limits, including the date and time of the deviations, the time corrective action was initiated and completed, and the corrective action taken. All excess emission reporting shall be conducted in accordance with 567 IAC 24.1.
- 14) Maintain onsite a copy of the most recent compliance test report which showed compliance with all applicable emission limitations. This report shall include, but not be limited to, the emission rates observed during the testing, the average liquid feed rate to the scrubber during the testing, the average pressure drop across the scrubber during the testing, and the additive feed rate during the testing if additives are used.

Authority for Requirement: DNR Construction Permit 01-A-548-S11

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 75

Stack Opening, (inches, dia.): 29.5

Exhaust Flow Rate (scfm): 11,000

Exhaust Temperature (°F): 75

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 01-A-548-S11

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

**Monitoring Requirements**

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

**Stack Testing:**

Pollutant – Volatile Organic Compounds (VOC) <sup>(1)</sup>

Stack Test to be Completed by - Annually <sup>(2)</sup>

Test Method – 40 CFR 60, Appendix A, Method 18

40 CFR 63, Appendix A, Method 320

Authority for Requirement – DNR Construction Permit 01-A-548-S11

Pollutant – Hazardous Air Pollutant (HAP) <sup>(1) (3)</sup>

Stack Test to be Completed by – Annually <sup>(2)</sup>

Test Method – 40 CFR 60, Appendix A, Method 18

40 CFR 63, Appendix A, Method 320

Authority for Requirement – DNR Construction Permit 01-A-548-S11

- (1) These tests shall be conducted once each calendar year during the months of June, July, or August and conducted in a manner to verify compliance with all emission limitations with all equipment operating in a worst case scenario (highest production rate, syrup rate, etc.).
- (2) The initial test shall be completed within sixty (60) days after achieving the maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment in DNR Construction Permit 01-A-548-S11.
- (3) Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically, any HAP whose emissions are measured below the detection limit shall be assumed to be emitted at the detection level.

*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: EP-S70**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-S70  
Emissions Control Equipment ID Number: CE C70  
Emissions Control Equipment Description: Baghouse

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Emission Unit vented through this Emission Point: EU-S70  
Emission Unit Description: DDGS Cooler  
Raw Material/Fuel: DDGS  
Rated Capacity: 24 tons/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 01-A-550-S9  
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: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.91 lb/hr

Authority for Requirement: DNR Construction Permit 01-A-550-S9

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.91 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 01-A-550-S9  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 5.50 lb/hr

Authority for Requirement: DNR Construction Permit 01-A-550-S9

Pollutant: Single Hazardous Air Pollutants (Single HAP)

Emission Limit(s): 2.14 lb/hr; 8.75 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 01-A-550-S9

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): 5.57 lb/ hr; 22.70 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 01-A-550-S9

<sup>(2)</sup> Emission limits requested by facility to limit potential HAP emissions from DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90).

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

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

### **HAP Emission Cap Requirements**

- 1) The owner or operator shall calculate monthly HAP emissions for all sources covered under the HAP emission limit cap: DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90) (hereafter referred to as "***all emission limit cap sources***"), by using the following formula: HAP (tons/month) = (average pound per hour emissions rate determined from the most recent performance test for HAP)\*(total hours operation per month)\*1 ton/2000 lbs).
- 2) The owner or operator shall retain the most recent stack test for *all emission limit cap sources* that demonstrated compliance on site and utilize such data for the 12-month or 365-day rolling total calculations. The permittee shall use the average pound per emission rate as determined by the performance test.
- 3) The permittee (or owner or operator) shall maintain the following daily records:
  - iv. The owner or operator shall record the number of hours that *all emission limit cap sources* (S10, S10B, S40, S70, S70B, and S90) are operated on a daily basis.
- 4) The permittee shall maintain the following monthly records:
  - i. The owner or operator shall record the number of hours that *all emission limit cap sources* are operated on a monthly basis.
  - ii. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.
  - iii. The 12-month rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.
  - iv. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - v. The 12-month rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
- 5) If the 12-month rolling total of all Total HAP emissions exceeds 17.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.

- ii. The 365-day rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.

Daily calculations of all Total HAP emissions shall continue until the 365-day rolling total of the amount of all Total HAP emissions from *all emission limit cap sources* drops below 17.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of Total HAP emissions will cease. If the emissions once again exceed 17.5 tons, daily recordkeeping will be required per paragraph 5) above.

- 6) If the 12-month rolling total of any Single HAP emitted exceeds 6.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - ii. The 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.Daily calculations of Single HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources* drops below 6.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each Single HAP will cease. If the emissions once again exceed 6.5 tons, daily recordkeeping will be required per paragraph 6) above.

### **Control Equipment Requirements**

- 7) The owner or operator shall inspect and maintain the control equipment according to manufacturer's recommendations.
  - a. The permittee shall maintain a record of all inspections, maintenance, and repair and any action resulting from the inspection and maintenance of the control equipment.
- 8) The differential pressure drop across the dry filters shall be maintained between 0.5 and 5.0 inches water column except during periods of filter replacement.
  - a. The permittee shall record the pressure drop across the dry filters, in inches water column, at least once a day. This requirement shall not apply on the days that the dry filters or associated emission units are not in operation.
- 9) The permittee shall maintain a record any corrective action taken for which data show a deviation from the operating limits, including the date and time of the deviations, the time corrective action was initiated and completed, and the corrective action taken.

Authority for Requirement: DNR Construction Permit 01-A-550-S9

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 110  
Stack Opening, (inches, dia.): 40.125  
Exhaust Flow Rate (scfm): 36,890  
Exhaust Temperature (°F): 95  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 01-A-550-S9

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

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – Particulate Matter (PM<sub>10</sub>)  
Stack Test to be Completed by – July 18, 2018  
Test Method – 40 CFR 51, Appendix M, 201A with 202  
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter (PM) - State  
Stack Test to be Completed by - July 18, 2018  
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 – Volatile Organic Compounds (VOC) <sup>(1)</sup>  
Stack Test to be Completed by – Every 3 years <sup>(2)</sup>  
Test Method – 40 CFR 60, Appendix A, Method 18  
40 CFR 63, Appendix A, Method 320  
Authority for Requirement – DNR Construction Permit 01-A-550-S9

Pollutant – Hazardous Air Pollutants (HAP) <sup>(1)</sup> <sup>(4)</sup>  
Stack Test to be Completed by – Annually <sup>(3)</sup>  
Test Method – 40 CFR 60, Appendix A, Method 18  
40 CFR 63, Appendix A, Method 320  
Authority for Requirement – DNR Construction Permit 01-A-550-S9

<sup>(1)</sup> These tests shall be conducted once each calendar year during the months of June, July, or August and conducted in a manner to verify compliance with all emission limitations with all equipment



- operating in a worst case scenario (highest production rate, syrup rate, etc.).
- (2) The initial test shall be completed within 180 days of the issuance of DNR Construction Permit 01-A-550-S8. The facility shall conduct stack testing for the indicated pollutant on EP-S70 at least once every 3 calendar years.
  - (3) The initial test shall be completed within 180 days of the issuance of DNR Construction Permit 01-A-550-S8. The facility shall conduct stack testing for the indicated pollutants on EP-S70 at least once each calendar year.
  - (4) Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically, any HAP whose emissions are measured below the detection limit shall be assumed to be emitted at the detection level.

*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: EP-S70B**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-S70B  
Emissions Control Equipment ID Number: CE C70B  
Emissions Control Equipment Description: Baghouse

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Emission Unit vented through this Emission Point: EU-S70B  
Emission Unit Description: DDGS Cooler  
Raw Material/Fuel: DDGS  
Rated Capacity: 24 tons/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 06-A-798-S5  
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: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 1.03 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-798-S5

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.03 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-798-S5  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 5.50 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-798-S5

Pollutant: Single Hazardous Air Pollutant (Single HAP)

Emission Limit(s): 2.14 lb/hr; 8.75 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 06-A-798-S5

Pollutant: Total Hazardous Air Pollutant (Total HAP)

Emission Limit(s): 5.57 lb/ hr; 22.70 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 06-A-798-S5

<sup>(2)</sup> Emission limits requested by facility to limit potential HAP emissions from DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90).

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

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

### **HAP Emission Cap Requirements**

- 1) The owner or operator shall calculate monthly HAP emissions for all sources covered under the HAP emission limit cap: DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90) (hereafter referred to as "***all emission limit cap sources***"), by using the following formula: HAP (tons/month) = (average pound per hour emissions rate determined from the most recent performance test for HAP)\*(total hours operation per month)\*1 ton/2000 lbs).
- 2) The owner or operator shall retain the most recent stack test for *all emission limit cap sources* that demonstrated compliance on site and utilize such data for the 12-month or 365-day rolling total calculations. The permittee shall use the average pound per emission rate as determined by the performance test.
- 3) The permittee (or owner or operator) shall maintain the following daily records:
  - v. The owner or operator shall record the number of hours that *all emission limit cap sources* (S10, S10B, S40, S70, S70B, and S90) are operated on a daily basis.
- 4) The permittee shall maintain the following monthly records:
  - i. The owner or operator shall record the number of hours that *all emission limit cap sources* are operated on a monthly basis.
  - ii. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.
  - iii. The 12-month rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.
  - iv. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - v. The 12-month rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
- 5) If the 12-month rolling total of all Total HAP emissions exceeds 17.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.

- ii. The 365-day rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.

Daily calculations of all Total HAP emissions shall continue until the 365-day rolling total of the amount of all Total HAP emissions from *all emission limit cap sources* drops below 17.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of Total HAP emissions will cease. If the emissions once again exceed 17.5 tons, daily recordkeeping will be required per paragraph 5) above.

- 6) If the 12-month rolling total of any Single HAP emitted exceeds 6.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - ii. The 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.

Daily calculations of Single HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources* drops below 6.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each Single HAP will cease. If the emissions once again exceed 6.5 tons, daily recordkeeping will be required per paragraph 6) above.

### **Control Equipment Requirements**

- 7) The owner or operator shall inspect and maintain the control equipment according to manufacturer's recommendations.
  - a. The permittee shall maintain a record of all inspections, maintenance, and repair and any action resulting from the inspection and maintenance of the control equipment.
- 8) The differential pressure drop across the dry filters shall be maintained between 0.5 and 5.0 inches water column except during periods of filter replacement.
  - a. The permittee shall record the pressure drop across the dry filters, in inches water column, at least once a day. This requirement shall not apply on the days that the dry filters or associated emission units are not in operation.
- 9) The permittee shall maintain a record any corrective action taken for which data show a deviation from the operating limits, including the date and time of the deviations, the time corrective action was initiated and completed, and the corrective action taken.

Authority for Requirement: DNR Construction Permit 06-A-798-S5

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 125  
Stack Opening, (inches, dia.): 40.125  
Exhaust Flow Rate (scfm): 22,945  
Exhaust Temperature (°F): 96  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 06-A-798-S5

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

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – Particulate Matter (PM<sub>10</sub>)  
Stack Test to be Completed by – July 18, 2018  
Test Method – 40 CFR 51, Appendix M, 201A with 202  
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter (PM) - State  
Stack Test to be Completed by - July 18, 2018  
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 – Volatile Organic Compounds (VOC) <sup>(1)</sup>  
Stack Test to be Completed by – Every 3 years <sup>(2)</sup>  
Test Method – 40 CFR 60, Appendix A, Method 18  
40 CFR 63, Appendix A, Method 320  
Authority for Requirement – DNR Construction Permit 06-A-798-S5

Pollutant – Hazardous Air Pollutants (HAP) <sup>(1)</sup> <sup>(4)</sup>  
Stack Test to be Completed by – Annually <sup>(3)</sup>  
Test Method – 40 CFR 60, Appendix A, Method 18  
40 CFR 63, Appendix A, Method 320  
Authority for Requirement – DNR Construction Permit 06-A-798-S5

<sup>(1)</sup> These tests shall be conducted once each calendar year during the months of June, July, or August and conducted in a manner to verify compliance with all emission limitations with all equipment

- operating in a worst case scenario (highest production rate, syrup rate, etc.).
- (2) The initial test shall be completed within 180 days of the issuance of DNR Construction Permit 06-A-798-S4. The facility shall conduct stack testing for the indicated pollutant on EP-S70 at least once every 3 calendar years.
  - (3) The initial test shall be completed within 180 days of the issuance of DNR Construction Permit 06-A-798-S4. The facility shall conduct stack testing for the indicated pollutants on EP-S70 at least once each calendar year.
  - (4) Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically, any HAP whose emissions are measured below the detection limit shall be assumed to be emitted at the detection level.

*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: EP S90**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-S90  
Emissions Control Equipment ID Number: CE C90  
Emissions Control Equipment Description: Baghouse

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Emission Unit vented through this Emission Point: EU-S90  
Emission Unit Description: DDGS Loading  
Raw Material/Fuel: DDGS  
Rated Capacity: 600 tons/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 03-A-546-S4  
567 IAC 23.3(2)"d"

<sup>(1)</sup> If visible emissions are observed the owner or operator is required to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

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

Emission Limit(s): 0.32 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-546-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.32 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-546-S4  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 2.50 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-546-S4

Pollutant: Single Hazardous Air Pollutant (Single HAP)

Emission Limit(s): 2.14 lb/hr; 8.75 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 03-A-546-S4

Pollutant: Total Hazardous Air Pollutant (Total HAP)

Emission Limit(s): 5.57 lb/ hr; 22.70 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 03-A-546-S4

<sup>(2)</sup> Emission limits requested by facility to limit potential HAP emissions from DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90).

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

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

### **HAP Emission Cap Requirements**

- 1) The owner or operator shall calculate monthly HAP emissions for all sources covered under the HAP emission limit cap: DDGS Dryers A (S10), DDGS Dryers B (S10B), Fermentation (S40), DDGS Cooler (S70), DDGS Cooler (S70B), and DDGS Loadout (S90) (hereafter referred to as "***all emission limit cap sources***"), by using the following formula: HAP (tons/month) = (average pound per hour emissions rate determined from the most recent performance test for HAP)\*(total hours operation per month)\*1 ton/2000 lbs).
- 2) The owner or operator shall retain the most recent stack test for *all emission limit cap sources* that demonstrated compliance on site and utilize such data for the 12-month or 365-day rolling total calculations. The permittee shall use the average pound per emission rate as determined by the performance test.
- 3) The permittee (or owner or operator) shall maintain the following daily records:
  - i. The owner or operator shall record the number of hours that *all emission limit cap sources* (S10, S10B, S40, S70, S70B, and S90) are operated on a daily basis.
- 4) The permittee shall maintain the following monthly records:
  - i. The owner or operator shall record the number of hours that *all emission limit cap sources* are operated on a monthly basis.
  - ii. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.
  - iii. The 12-month rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.
  - iv. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - v. The 12-month rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
- 5) If the 12-month rolling total of all Total HAP emissions exceeds 17.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of all Total HAP emissions from *all emission limit cap sources*, in tons.



- ii. The 365-day rolling total of the amount of Total HAP emissions from *all emission limit cap sources*, in tons.

Daily calculations of all Total HAP emissions shall continue until the 365-day rolling total of the amount of all Total HAP emissions from *all emission limit cap sources* drops below 17.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of Total HAP emissions will cease. If the emissions once again exceed 17.5 tons, daily recordkeeping will be required per paragraph 5) above.

- 6) If the 12-month rolling total of any Single HAP emitted exceeds 6.5 tons from *all emission limit cap sources*, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.
  - ii. The 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources*, in tons.

Daily calculations of Single HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each Single HAP from *all emission limit cap sources* drops below 6.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each Single HAP will cease. If the emissions once again exceed 6.5 tons, daily recordkeeping will be required per paragraph 6) above.

### **Control Equipment Requirements**

- 7) The owner or operator shall inspect and maintain the control equipment according to manufacturer's recommendations.
  - a. The permittee shall maintain a record of all inspections, maintenance, and repair and any action resulting from the inspection and maintenance of the control equipment.
- 8) The differential pressure drop across the dry filters shall be maintained between 0.5 and 5.0 inches water column except during periods of filter replacement.
  - a. The permittee shall record the pressure drop across the dry filters, in inches water column, at least once a day. This requirement shall not apply on the days that the dry filters or associated emission units are not in operation.
- 9) The permittee shall maintain a record any corrective action taken for which data show a deviation from the operating limits, including the date and time of the deviations, the time corrective action was initiated and completed, and the corrective action taken.

Authority for Requirement: DNR Construction Permit 03-A-546-S4

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 14  
Stack Opening, (inches, dia.): 10  
Exhaust Flow Rate (scfm): 3,000  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 03-A-546-S4

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

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – Particulate Matter (PM<sub>10</sub>)  
Stack Test to be Completed by – July 18, 2018  
Test Method – 40 CFR 60, Appendix M, 201A with 202  
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter (PM) – State  
Stack Test to be Completed by - July 18, 2018  
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 – Volatile Organic Compounds (VOC) <sup>(1)</sup>  
Stack Test to be Completed by – Once <sup>(2)</sup>  
Test Method – 40 CFR 60, Appendix A, Method 18  
40 CFR 63, Appendix A, Method 320  
Authority for Requirement – DNR Construction Permit 03-A-546-S4

Pollutant – Hazardous Air Pollutants (HAP) <sup>(1) (4)</sup>  
Stack Test to be Completed by – Annually <sup>(3)</sup>  
Test Method – 40 CFR 60, Appendix A, Method 18  
40 CFR 63, Appendix A, Method 320  
Authority for Requirement – DNR Construction Permit 03-A-546-S4

<sup>(1)</sup> These tests shall be conducted once each calendar year during the months of June, July, or August and conducted in a manner to verify compliance with all emission limitations with all equipment

- operating in a worst case scenario (highest production rate, syrup rate, etc.).
- (2) The initial test shall be completed within 180 days of the issuance of DNR Construction Permit 03-A-546-S3.
  - (3) The initial test shall be completed within 180 days of the issuance of DNR Construction Permit 03-A-546-S3. The facility shall conduct stack testing for the indicated pollutants on EP-S90 at least once each calendar year.
  - (4) Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically, any HAP whose emissions are measured below the detection limit shall be assumed to be emitted at the detection level.

*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: EP F80**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-F80  
Emissions Control Equipment ID Number: CE C80  
Emissions Control Equipment Description: Drift Eliminator

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Emission Unit vented through this Emission Point: EU-F80  
Emission Unit Description: Cooling Tower  
Raw Material/Fuel: Water  
Rated Capacity: 1,960,000 gallons/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 05-A-750-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: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 2.04 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-750-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.04 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-750-S1  
567 IAC 23.3(2)"a"

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The circulating water in the cooling tower shall not exceed 2,500 parts per million by weight (ppm<sub>w</sub>) (2,500 mg/L) total dissolved solids (TDS).
- B. The owner or operator shall maintain the cooling tower according to manufacturer's

- specifications, instructions and maintenance schedule.
- C. No cooling water additives containing HAPs shall be used in this unit.

**Reporting & Record keeping**

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

- A. The owner or operator shall complete an analysis of the TDS of the water in the cooling tower at least once for each calendar month this emission unit is in operation.
- B. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the cooling tower.
- C. The owner or operator shall keep Material Safety Data Sheets (MSDS) of any additives used in the cooling tower.

Authority for Requirement: DNR Construction Permit 05-A-750-S1

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 30  
Stack Opening, (inches, dia.): 4 cells at 30 ft per cell  
Exhaust Flow Rate (scfm): 5 cells at 1,525,000 scfm per cell  
Exhaust Temperature (°F): 84  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 05-A-750-S1

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

**Monitoring Requirements**

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

**Stack Testing:**

- Pollutant – TDS <sup>(1)</sup>  
Test to be Completed by: Monthly  
Test Method – According to IDNR Approved Method  
Authority for Requirement – DNR Construction Permit 05-A-750-S1

<sup>(1)</sup>Performance testing is required to be completed to demonstrate compliance with the Total Dissolved Solids (TDS) Concentration of 2,500 mg/L once each calendar month

*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: EP F80B**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-F80B  
Emissions Control Equipment ID Number: CE C80b  
Emissions Control Equipment Description: Drift Eliminator

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Emission Unit vented through this Emission Point: EU-F80B  
Emission Unit Description: Cooling Tower  
Raw Material/Fuel: Water  
Rated Capacity: 1,960,000 gallons/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 06-A-799-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> 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: Particulate Matter (PM)

Emission Limit(s): 2.04 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-799-S1  
567 IAC 23.3(2)"a"

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

Emission Limit(s): 2.04 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-799-S1

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The circulating water in the cooling tower shall not exceed 2,500 parts per million by weight (ppm<sub>w</sub>) (2,500 mg/L) total dissolved solids (TDS).
- B. The owner or operator shall maintain the cooling tower according to manufacturer's specifications, instructions and maintenance schedule.
- C. No cooling water additives containing HAPs shall be used in this unit.

### **Reporting & Record keeping**

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

- A. The owner or operator shall complete an analysis of the TDS of the water in the cooling tower at least once for each calendar month this emission unit is in operation.
- B. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the cooling tower.
- C. The owner or operator shall keep Material Safety Data Sheets (MSDS) of any additives used in the cooling tower.

Authority for Requirement: DNR Construction Permit 06-A-799-S1

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 28

Stack Opening, (inches, dia.): 5 cells at 28 ft per cell

Exhaust Flow Rate (scfm): 5 cells at 1,560,000 scfm per cell

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-750-S1

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

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – TDS <sup>(1)</sup>

Test to be completed by: Monthly

Test Method – According to IDNR Approved Method

Authority for Requirement – DNR Construction Permit 06-A-799-S1

<sup>(1)</sup>Performance testing is required to be completed to demonstrate compliance with the Total Dissolved Solids (TDS) Concentration of 2,500 mg/L once each calendar month.

*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: EP-S22**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-F50

Emissions Control Equipment ID Number: CE C22

Emissions Control Equipment Description: Flare (Natural Gas, 6.6 MMBtu/hr)

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Emission Unit vented through this Emission Point: EU-F50

Emission Unit Description: Truck and Railcar Product Loadout

Raw Material/Fuel: Denatured Ethanol

Rated Capacity: Truck: 600 gal/min; Rail: 4,000 gal/min

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 03-A-541-S8  
567 IAC 23.3(2)"d"

<sup>(1)</sup> If visible emissions are observed, the owner or operator is required to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-541-S8  
567 IAC 23.3(2)"a"

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

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 03-A-541-S8  
567 IAC 23.3(3)"e"

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

Emission Limit(s): 0.45 lb/hr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 03-A-541-S8

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.34 lb/hr <sup>(2)</sup>; 11.09 tons/yr <sup>(3)</sup>

Authority for Requirement: DNR Construction Permit 03-A-541-S8

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 2.44 lb/hr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 03-A-541-S8

<sup>(2)</sup> Emission limit for Flare (CE-C22) only.

<sup>(3)</sup> Total emission limits for Truck and Railcar Product Loadout (EU-F50).

### **Other Emission Limits – National Emission Standards for Hazardous Air Pollutants**

Pollutant: Opacity

Emission Limit(s): 0% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 03-A-541-S8

40 CFR §63.11(b)(4)

40 CFR Part 63 Subpart BBBBBB

567 IAC 23.1(4)"a"

567 IAC 23.1(4)"eb"

<sup>(1)</sup> Per 40 CFR §63.11(b)(4), Flare (CE-C22) shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours..

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

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

### **Production Limits and Associated Recordkeeping Requirements**

- 1) The amount of product loaded into trucks and railcars shall not exceed 150 million gallons per each twelve-month period.
- 2) The amount of product loaded into trucks shall not exceed 37.5 million gallons per each twelve-month period.
- 3) The facility shall not perform switch-loading at the rail loadout.
- 4) At the end of each month, the owner or operator shall record the amount of product loaded into trucks and railcars and the amount over the previous month.
- 5) At the end of each month, the owner or operator shall record the total amount of product loaded into trucks and railcars over the previous twelve (12) months.
- 6) The product loaded into trucks and railcars shall include denatured ethanol, undenatured ethanol, and a blend of gasoline with up to 85 percent ethanol (E85).
- 7) The owner or operator shall keep Safety Data Sheets (SDS) of all materials loaded, which includes the vapor pressure of the material at 70 °F and 760 mmHg.
- 8) The owner or operator shall record the composition of the gasoline and ethanol blend of the product loaded out.

### **NESAHP Subpart BBBBBB and Control Equipment Requirements**

- 9) The owner or operator shall comply with all the applicable requirements in 40 CFR Part 63, Subpart BBBBBB – National Emission Standards for Hazardous Air Pollutants for

Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities (§63.11080 - §63.11100), including those not specifically mentioned in this permit. If differences in language are found between this permit and Subpart BBBBBB, the language specified in Subpart BBBBBB shall be considered correct.

- 10) As indicated in 40 CFR §63.11085, the owner or operator shall, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department, which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
- 11) As indicated in 40 CFR §63.11089(a), the owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in §63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable.
- 12) The Flare (CE-C22) used to comply with the provisions in Subpart BBBBBB of Part 63 shall meet all the applicable requirements in 40 CFR §63.11(b).
- 13) As indicated in 40 CFR §63.11(b)(3), the Flare (CE-C22) shall be operated at all times when emissions may be vented to it.
- 14) As indicated in 40 CFR §63.11(b)(5), the Flare (CE-C22) shall be operated with a flame present at all times. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.
- 15) The owner or operator shall inspect and maintain the Flare (CE-C22) according to manufacturer's specifications.
- 16) The owner or operator shall equip each internal and external floating roof gasoline storage tank according to the specifications in Table 1 to Subpart BBBBBB of 40 CFR Part 63.
- 17) As indicated in 40 CFR §63.11092(e)(1) and (2), the owner or operator shall perform inspection of the floating roof system according to the requirements of §60.113(b) or §63.1063(c).
- 18) The owner or operator shall use submerged filling with a submerged fill pipe that is no more than 6 inches from the bottom of the cargo tank according to the management practices for loading racks specified in Table 2 to Subpart BBBBBB of 40 CFR Part 63.
- 19) As indicated in 40 CFR §63.11089(b) and (c), the owner or operator shall maintain a log book to record each detection of a liquid or vapor leak and a description of each repair or replacement of leaking equipment. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility.
- 20) The owner or operator shall continuously verify the output of the flame detection system indicating the presence of a pilot flame, while loading.
- 21) The owner or operator shall maintain a record of all inspections, maintenance, and repairs of the Flare (CE-C22) and any action resulting from these.
- 22) The owner or operator shall maintain a record of all inspections performed on each internal and external floating roof gasoline storage tank and any action resulting from these inspections.
- 23) The owner or operator shall comply with the notification, recordkeeping, and reporting

requirements as outlined in 40 CFR §63.11093, §63.11094, and §63.11095, respectively.

Authority for Requirement: DNR Construction Permit 03-A-541-S8

**NSPS and NESHAP Requirements**

The Truck and Railcar Product Loadout (EU-F50) is subject to the requirements in 40 CFR Part 63, Subpart BBBBBB – National Emission Standards for *Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities* [567 IAC 23.1(4)“eb”], because it is a bulk gasoline terminal as defined by § 63.11100.

The Truck and Railcar Product Loadout (EU-F50) is also subject to the requirements in 40 CFR Part 63, Subpart A – *General Provisions* [567 IAC 23.1(4)“a”], except as indicated in Table 3 to Subpart BBBBBB of Part 63.

Authority for Requirement: DNR Construction Permit 03-A-541-S8  
40 CFR 63 Subpart A  
40 CFR 63 Subpart BBBBBB  
567 IAC 23.1(4)  
567 IAC 23.1(4)"eb"

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 30  
Stack Opening, (inches, dia.): 96  
Exhaust Flow Rate (scfm): 10,300  
Exhaust Temperature (°F): 1,800  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 03-A-541-S8

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP F95**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-F95

Emissions Control Equipment Description: Leak Detection and Repair (LDAR)

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Emission Unit vented through this Emission Point: EU-F95

Emission Unit Description: VOC Emissions from Equipment Leaks

Raw Material/Fuel: Equipment Leaks

Rated Capacity: NA

### **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: Volatile Organic Compounds (VOC)

Emission Limit(s): 12.90 tons/yr

Authority for Requirement: DNR Construction Permit 05-A-752-S2

Pollutant: Single Hazardous Air Pollutant (Single HAP)

Emission Limit(s): 0.01 tons/yr

Authority for Requirement: DNR Construction Permit 05-A-752-S2

Pollutant: Total Hazardous Air Pollutant (Total HAP)

Emission Limit(s): 0.05 tons/yr

Authority for Requirement: DNR Construction Permit 05-A-752-S2

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

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

#### **NSPS Subpart VV Requirements**

- 1) The owner or operator shall follow the applicable standards of NSPS Subpart VV, 40 CFR 60.480 through 40 CFR 60.489.
- 2) The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.

#### **VOC and HAP Emission Limit Recordkeeping Requirements**

- 3) The owner or operator shall count and document the number and types of components

used at the plant. Components include but are not limited to valves, pumps, compressor seals, flanges, etc. The company shall modify the component count whenever the number of components change.

- 4) The owner or operator shall determine and document the worst case (highest) concentration of all Single HAP and Total HAP for each component in weight percent. The company shall modify the concentration if and whenever it changes.
- 5) The owner or operator shall retain the documentation necessary to justify the component count, HAP contents, equations, and control efficiencies used in the equipment leak calculations.
- 6) The owner or operator shall calculate and record the annual VOC, Individual HAP, and Total HAP emissions based on the documented component count and Single HAP and Total HAP concentration in the equipment (components). The owner or operator shall update the annualized VOC, Individual HAP and Total HAP emission calculations as the component count or concentration varies. Emission factors and estimation methods shall be based on EPA document 453/R-95-017 entitled Protocol for Equipment Leak Emission Estimates.

Authority for Requirement: DNR Construction Permit 05-A-752-S2

### **NSPS and NESHAP Requirements**

As provided in 40 CFR 60.480, this facility is an affected facility subject to the requirements of New Source Performance Standard (NSPS) Subpart VV – Standards of Performance for *Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry* for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006. For this affected facility, a process unit is any components assembled to produce industrial grade ethanol. The affected process unit is also subject to Subpart A (*General Provisions*, 40 CFR 60.1 through 40 CFR 60.19) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR Construction Permit 05-A-752-S2  
40 CFR 60 Subpart A  
40 CFR 60 Subpart VV  
567 IAC 23.1(2)  
567 IAC 23.1(2)"nn"

### **Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: EP F100**

Associated Equipment

Associated Emission Unit ID Numbers: EU-F100  
Emissions Control Equipment ID Number: CE C100  
Emissions Control Equipment Description: Street Sweeper

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Emission Unit vented through this Emission Point: EU-F100  
Emission Unit Description: Paved Haul Roads  
Raw Material/Fuel: Dust  
Rated Capacity: 100,000 vehicle miles per year

**Applicable Requirements**

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

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

Pollutant: Fugitive Dust

Emission Limit: The owner or operator shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dust beyond the lot line of the property.

Authority for Requirement: DNR Construction Permit 06-A-808-S1  
567 IAC 23.3(2)"c"

Pollutant: Particulate Matter (PM<sub>2.5</sub>)

Emission Limit(s): 1.0 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-808-S1

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

Emission Limit(s): 5.0 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-808-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 25.5 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-808-S1

**Operational Limits & Requirements**

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

**Operating Limits**

- A. All haul roads at this facility (Plant No. 18-02-006) shall be paved.
- B. Traffic on the haul roads shall not exceed 20 miles per hour. The speed limit shall be posted on all haul roads.



- C. The haul road surface silt loading shall not exceed 1.6 grams per square meter.
- D. The on-site vehicle miles traveled shall not exceed 100,000 miles per twelve-month rolling period at an average vehicle weight of 28.19 tons.
- E. The owner or operator shall clean the haul roads at least once per week, weather permitting.
- F. The owner or operator shall use an enclosed Street Sweeper (CE-C100) that is a vacuum-assisted sweeper, or a regenerative-air sweeper, or equivalent sweeper to clean the haul roads.
- G. The Street Sweeper (CE-C100) shall be operated at the speed recommended by the manufacturer (typically 6 to miles per hour or less).
- H. The Street Sweeper (CE-C100) shall be maintained according to the manufacturer's specification and maintenance schedule.

**Reporting & Record keeping**

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

- A. At the end of each month, the owner or operator shall record the number of vehicle miles traveled on the haul roads over the previous month.
- B. At the end of each month, the owner or operator shall record the total number of vehicle miles traveled on the haul roads over the previous twelve (12) months.
- C. At the end of each month, the owner or operator shall calculate and record the haul roads particulate matter (PM, PM<sub>10</sub>, and PM<sub>2.5</sub>) emissions over the previous month.
- D. At the end of each month, the owner or operator shall calculate and record the haul roads particulate matter (PM, PM<sub>10</sub>, and PM<sub>2.5</sub>) emissions over the previous twelve (12) months.
- E. The owner or operator shall keep maintenance records for the Street Sweeper (CE-C100) to note operation problems and ensure timely adjustments and repairs.

Authority for Requirement: DNR Construction Permit 06-A-808-S1

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: EP T62, EP T63, EP T610A, EP T610B,  
EP T620A**

Associated Equipment

<b>Emission Point</b>	<b>Associated Emission Unit</b>	<b>Emission Unit Description</b>	<b>Raw Material/Fuel</b>	<b>Rated Capacity (gallons)</b>	<b>Control Equipment</b>
T62	T62	Ethanol Storage Tank	Denatured or Non-denatured Ethanol	750,000	Internal Floating Roof CE C62
T63	T63	Ethanol Storage Tank	Denatured or Non-denatured Ethanol	750,000	Internal Floating Roof CE C63
T610A	T610A	Ethanol Storage Tank	Denatured or Non-denatured Ethanol	150,000	Internal Floating Roof CE C610A
T610B	T610B	Ethanol Storage Tank	Denatured or Non-denatured Ethanol	150,000	Internal Floating Roof CE C610B
T620A	T620A	Ethanol Storage Tank	Denatured or Non-denatured Ethanol	150,000	Internal Floating Roof CE C620A

**Applicable Requirements**

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

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

There are no emission limits for these emission units at this time.

**Operational Limits & Requirements**

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

**Operating Limits**

- A. The owner or operator shall only store denatured or non-denatured ethanol in this tank.
- B. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR 60.112b(a)(1), and inspect as required in 40 CFR 60.113b(a).

**Reporting & Record keeping**

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

- A. The owner or operator shall keep records and furnish reports as required in 40 CFR 60.115b(a) and 40 CFR 60.116b.
- B. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. This record shall be kept for the life of the source.

C. The owner or operator shall maintain a record of all inspections performed on the floating roof system and any action resulting from these inspections.

Authority for Requirement: DNR Construction Permits 01-A-552-S2 (T62), 14-A-520-S1, (T63)  
06-A-800-S2 (T610A), 06-A-801-S2 (T610B),  
06-A-802-S2 (T620A)

### **NSPS and NESHAP Requirements**

This emission unit is subject to 40 CFR 60 Subpart Kb – Standards of Performance for *Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)* for Which Construction Reconstruction or Modification Commenced After July 23, 1984, and 40 CFR 60 Subpart A – *General Provisions*.

Authority for Requirement: DNR Construction Permits 01-A-552-S2 (T62), 14-A-520-S1, (T63)  
06-A-800-S2 (T610A), 06-A-801-S2 (T610B),  
06-A-802-S2 (T620A)  
40 CFR 60 Subpart A  
40 CFR 60 Subpart Kb  
567 IAC 23.1  
567 IAC 23.1(2)"ddd"

### **Emission Point Characteristics**

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

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

Stack Opening, (inches, dia.): NA

Exhaust Flow Rate (scfm): Breathing Loss

Exhaust Temperature (°F): Ambient

Discharge Style: NA

Authority for Requirement: DNR Construction Permits 01-A-552-S2 (T62), 14-A-520-S1, (T63)  
06-A-800-S2 (T610A), 06-A-801-S2 (T610B),  
06-A-802-S2 (T620A)

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP T630A**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-T630A  
Emissions Control Equipment ID Number: CE C630A  
Emissions Control Equipment Description: Internal Floating Roof

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Emission Unit vented through this Emission Point: EU-T630A  
Emission Unit Description: 200 Proof Ethanol Storage Tank  
Raw Material/Fuel: 200 Proof Ethanol  
Rated Capacity: 200,000 gallons

### **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.*

There are no emission limits for this emission unit at this time.

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The owner or operator shall only store 200 proof ethanol in this tank.
- B. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR 60.112b(a)(1), and inspect as required in 40 CFR 60.113b(a).

#### **Reporting & Record keeping**

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

- A. The owner or operator shall keep records and furnish reports as required in 40 CFR 60.115b(a) and 40 CFR 60.116b.
- B. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. This record shall be kept for the life of the source.
- C. The owner or operator shall maintain a record of all inspections performed on the floating roof system and any action resulting from these inspections.

Authority for Requirement: DNR Construction Permit 06-A-804-S1

**NSPS and NESHAP Requirements**

This emission unit is subject to 40 CFR 60 Subpart Kb – Standards of Performance for *Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)* for Which Construction Reconstruction or Modification Commenced After July 23, 1984, and 40 CFR 60 Subpart A – *General Provisions*.

Authority for Requirement: DNR Construction Permit 06-A-804-S1  
40 CFR 60 Subpart A  
40 CFR 60 Subpart Kb  
567 IAC 23.1  
567 IAC 23.1(2)"ddd"

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): NA  
Stack Opening, (inches, dia.): NA  
Exhaust Flow Rate (scfm): Breathing Loss  
Exhaust Temperature (°F): Ambient  
Discharge Style: NA  
Authority for Requirement: DNR Construction Permit 06-A-804-S1

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP T640**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-T640  
Emissions Control Equipment ID Number: CE C640  
Emissions Control Equipment Description: Internal Floating Roof

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Emission Unit vented through this Emission Point: EU-T640  
Emission Unit Description: Denaturant Storage Tank  
Raw Material/Fuel: Denatured Ethanol  
Rated Capacity: 110,000 gallons

### **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.*

There are no emission limits for this emission unit at this time.

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The owner or operator shall only store denaturant in this tank.
- B. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR 60.112b(a)(1), and inspect as required in 40 CFR 60.113b(a).

#### **Reporting & Record keeping**

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

- A. The owner or operator shall keep records and furnish reports as required in 40 CFR 60.115b(a) and 40 CFR 60.116b.
- B. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. This record shall be kept for the life of the source.
- C. The owner or operator shall maintain a record of all inspections performed on the floating roof system and any action resulting from these inspections.

Authority for Requirement: DNR Construction Permit 06-A-806-S2

**NSPS and NESHAP Requirements**

This emission unit is subject to 40 CFR 60 Subpart Kb – Standards of Performance for *Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)* for Which Construction Reconstruction or Modification Commenced After July 23, 1984, and 40 CFR 60 Subpart A – *General Provisions*.

Authority for Requirement: DNR Construction Permit 06-A-806-S2  
40 CFR 60 Subpart A  
40 CFR 60 Subpart Kb  
567 IAC 23.1  
567 IAC 23.1(2)"ddd"

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): NA  
Stack Opening, (inches, dia.): NA  
Exhaust Flow Rate (scfm): Breathing Loss  
Exhaust Temperature (°F): Ambient  
Discharge Style: NA  
Authority for Requirement: DNR Construction Permit 06-A-806-S2

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)



## **Emission Point ID Number: EP T650**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-T650

Emissions Control Equipment ID Number: CE C650

Emissions Control Equipment Description: Internal Floating Roof

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Emission Unit vented through this Emission Point: EU-T650

Emission Unit Description: 190 Proof Ethanol Storage Tank

Raw Material/Fuel: 190 Proof Ethanol

Rated Capacity: 200,000 gallons

### **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.*

There are no emission limits for this emission unit at this time.

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The owner or operator shall only store 190 proof ethanol in this tank.
- B. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR 60.112b(a)(1), and inspect as required in 40 CFR 60.113b(a).

#### **Reporting & Record keeping**

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

- A. The owner or operator shall keep records and furnish reports as required in 40 CFR 60.115b(a) and 40 CFR 60.116b.
- B. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. This record shall be kept for the life of the source.
- C. The owner or operator shall maintain a record of all inspections performed on the floating roof system and any action resulting from these inspections.

Authority for Requirement: DNR Construction Permit 06-A-807-S1

**NSPS and NESHAP Requirements**

This emission unit is subject to 40 CFR 60 Subpart Kb – Standards of Performance for *Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)* for Which Construction Reconstruction or Modification Commenced After July 23, 1984, and 40 CFR 60 Subpart A – *General Provisions*.

Authority for Requirement: DNR Construction Permit 06-A-807-S1  
40 CFR 60 Subpart A  
40 CFR 60 Subpart Kb  
567 IAC 23.1  
567 IAC 23.1(2)"ddd"

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): NA  
Stack Opening, (inches, dia.): NA  
Exhaust Flow Rate (scfm): Breathing Loss  
Exhaust Temperature (°F): Ambient  
Discharge Style: NA

Authority for Requirement: DNR Construction Permit 06-A-807-S1

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## 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, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

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

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

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

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

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

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

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

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
  - a. Form 1.0 "Facility Identification";
  - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
  - c. Form 5.0 "Title V annual emissions summary/fee"; and
  - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
  - a. Form 1.0 "Facility Identification";
  - b. Form 5.0 "Title V annual emissions summary/fee";
  - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

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

**G8. Duty to Provide Information**

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

**G9. General Maintenance and Repair Duties**

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

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

**G10. Recordkeeping Requirements for Compliance Monitoring**

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
  - a. The date, place and time of sampling or measurements
  - b. The date the analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses; and
  - f. The operating conditions as existing at the time of sampling or measurement.
  - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
  - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
  - b. Maintain a log at the permitted facility of the scenario under which it is operating.
  - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

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

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

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

**G13. Hazardous Release**

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

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

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

## 2. Excess Emissions Reporting

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

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

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department

within seven days of the onset of the upset condition, and shall include as a minimum the following:

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

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

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

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

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

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

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

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of



performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
  - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
  - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
  - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
  - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
  - e. The changes comply with all applicable requirements.
  - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
    - i. A brief description of the change within the permitted facility,
    - ii. The date on which the change will occur,
    - iii. Any change in emission as a result of that change,
    - iv. The pollutants emitted subject to the emissions trade
    - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
    - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
    - vii. Any permit term or condition no longer applicable as a result of the change.*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 substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

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

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

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

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the

permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

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

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  
7900 Hickman Road, Suite #1  
Windsor Heights, IA 50324  
(515) 725-9545

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

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

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

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

*567 IAC 26.1(1)*

**G32. Contacts List**

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

Chief of Air Permits  
U.S. EPA Region 7  
Air Permits and Compliance Branch  
11201 Renner Blvd.  
Lenexa, KS 66219  
(913) 551-7020

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

Chief, Air Quality Bureau  
Iowa Department of Natural Resources  
7900 Hickman Road, Suite #1  
Windsor Heights, IA 50324  
(515) 725-9500

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

**Field Office 1**  
909 West Main – Suite 4  
Manchester, IA 52057  
(563) 927-2640

**Field Office 2**  
2300-15th St., SW  
Mason City, IA 50401  
(641) 424-4073

**Field Office 3**  
1900 N. Grand Ave.  
Spencer, IA 51301  
(712) 262-4177

**Field Office 4**  
1401 Sunnyside Lane  
Atlantic, IA 50022  
(712) 243-1934

**Field Office 5**  
7900 Hickman Road, Suite #200  
Windsor Heights, IA 50324  
(515) 725-0268

**Field Office 6**  
1023 West Madison Street  
Washington, IA 52353-1623  
(319) 653-2135

**Polk County Public Works Dept.**  
Air Quality Division  
5885 NE 14th St.  
Des Moines, IA 50313  
(515) 286-3351

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



## V. Appendix

- A. 40 CFR 60 Subpart A – *General Provisions*  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.a>
- B. 40 CFR 60 Subpart Db – Standards of Performance for *Industrial Commercial Institutional Steam Generating Units*.  
[http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.d\\_0b](http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.d_0b)
- C. 40 CFR 60 Subpart Kb – Standards of Performance for *Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)* for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.  
[http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.k\\_0b](http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.k_0b)
- D. 40 CFR 60 Subpart DD - to Standards of Performance for *Grain Elevators*.  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.dd>
- E. 40 CFR 60 Subpart VV – Standards of Performance for *Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry* for Which Construction, Reconstruction or Modification Commenced After January 5, 1981, and on or Before November 7, 2006  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.vv>
- F. 40 CFR 63 Subpart A – *General Provisions*.  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.10.63.a>
- G. 40 CFR Part 63 Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: *Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities*.  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.15.63.bbbbbbb>