

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

**Name of Permitted Facility: POET Biorefining – Jewell, LLC**  
**Facility Location: 2601 320<sup>th</sup> Street, Jewell, IA 50130**

**Air Quality Operating Permit Number: 18-TV-004-M001**

**Expiration Date: May 29, 2023**

**Permit Renewal Application Deadline: November 29, 2022**

**EIQ Number: 92-6943**

**Facility File Number: 40-02-002**

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**Responsible Official**

**Name: Wael Sanduka**

**Title: General Manager**

**Mailing Address: 1562 320<sup>th</sup> Street, Gowrie, IA 50543**

**Phone #: (515) 352-2612**

**Permit Contact Person for the Facility**

**Name: Jerry Rabe**

**Title: Plant Manager**

**Mailing Address: 2601 320<sup>th</sup> Street, Jewell, IA 50130**

**Phone #: (515) 827-6050**

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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

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## Abbreviations

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

### Pollutants

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

# I. Facility Description and Equipment List

Facility Name: POET Biorefining - Jewell

Permit Number: 18-TV-004-M001

Facility Description: Fuel-Grade Ethyl Alcohol Manufacturing (SIC 2869)

## Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP SV1	EU1	Three Grain Receiving Pits via Truck and Rail	05-A-424-S9
	EU2	Two Grain Legs and Conveying System	
	EU3	Six Grain Bins	
	EU027	DDGS Loadout	
EP SV2	EU4	Corn Scalper, Conveyor, Surge Bin	05-A-425-S2
EP SV3	EU5	Hammermill 1	05-A-426-S5
EP SV4	EU6	Hammermill 2	05-A-427-S5
EP SV5	EU7	Hammermill 3	05-A-428-S5
EP SV6	EU8	Hammermill 4	05-A-429-S5
EP SV20	EU24	Hammermill 5	06-A-317-S4
EP SV7	EU9a	Yeast Propagation Tank	05-A-430-S9
	EU9b	7 Batch Mash Fermenters	
	EU9c	Beer Well	
	EU10	Distillation Process: Evaporator, (2) Strippers, (3) Sieves, Rectifier, Surge Tank	
EP SV8	EU9a	Yeast Propagation Tank	05-A-431-S9
	EU9b	7 Batch Mash Fermenters	
	EU9c	Beer Well	
	EU10	Distillation Process: Evaporator, (2) Strippers, (3) Sieves, Rectifier	
	EU14	Centrifuge #1	
	EU15	Centrifuge #2	
	EU16	Centrifuge #3	
	EU17	Centrifuge #4	
	EU11	DDGS Dryer 1	
	EU12	DDGS Dryer 2	
EU26	Corn Oil Separation System		
EP SV9	EU18	DDGS Fluid Bed Cooler	05-A-432-S5
EP SV10	EU19	DDGS Storage Silo	05-A-433-S3
EP SV11	EU20	DDGS Storage Silo Bypass	05-A-434-S5
EP SV12	EU21	Boiler 1	05-A-435-S3
EP SV13	EU22	Boiler 2	05-A-436-S3
EP SV14	EUTK-001	190 Proof Ethanol Storage Tank	05-A-437-S5
EP SV15	EUTK-002	Denaturant Storage Tank	05-A-438-S5

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>DNR Construction Permit Number</b>
EP SV16	EUTK-003	200 Proof Ethanol Storage Tank	05-A-439-S6
EP SV17	EUTK-004	200 Proof Ethanol Storage Tank	05-A-440-S6
EP SV18	EUTK-005	Denaturant or 200 Proof Storage Tank	05-A-441-S6
EP SV19	EU25	Diesel Generator 2000 kW	05-A-442-S4
EP SV21	EU14	Centrifuge #1	17-A-152
	EU15	Centrifuge #2	
	EU16	Centrifuge #3	
	EU17	Centrifuge #4	
EP SV Flare	EUFLAREa	Ethanol Loadout Truck	05-A-445-S6
	EUFLAREb	Ethanol Loadout Rail	
EP SV22	EU26	Corn Oil Separation System	18-A-456
EP F001	EUF001	Fugitive Emissions Grain Receiving	None
EP F002	EUF002	Haul Roads	05-A-446-S5
EP F003	EUF003	Fugitive Emissions DDG Handling	None
EP F004	EUF004	Equipment Leaks	05-A-444-S4
EP F005a	EUF005	Cooling Tower	05-A-443-S2
EP F006	EUF006	Wetcake Production	None

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### Insignificant Activities Equipment List

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
EU F007	Railcar Venting Prior to Maintenance
EU TK006	Syrup Tank (61,000 gallons)
EU TK007	Thin Stillage Tank (500,000 gallons)
EU TK008	Distillate Tank (80,000 gallons)
EU TK009	Corrosion Inhibitor Tank (1,000 gallons)
EU TK010	Sulfuric Acid Tank (12,500 gallons)
EU TK011	Acetic Acid Tank (8,700 gallons)
EU TK012	Gasoline Storage Tank (550 gallons)
EU TK013	Diesel Storage Tank (550 gallons)

## II. Plant-Wide Conditions

Facility Name: POET Biorefining – Jewell  
Permit Number: 18-TV-004-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: May 30, 2018  
Ending on: May 29, 2023

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

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### Emission Limits

*Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:*

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

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

#### Particulate Matter:

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

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

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

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

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

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

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

This facility is an affected source and these General Provisions apply to the facility. The affected units are EU1, EU2, EU3, EU4, EU21, EU22, EUTK-001, EUTK-002, EUTK-003, EUTK-004, EUTK-005, and EUF004.

See Appendix for a link to the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

#### **40 CFR 60 Subpart Db Requirements**

This facility is subject to Standards of Performance for Industrial Commercial Institutional Steam Generating Units. The affected units are EU21 and EU22.

See Appendix for a link to the Standard.

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

#### **40 CFR 60 Subpart DD Requirements**

This facility is subject to Standards of Performance for Grain Elevators. The affected units are EU1, EU2, EU3, and EU4.

See Appendix for the link of the Standard.

Authority for Requirement: 40 CFR 60 Subpart DD  
567 IAC 23.1(2)"ooo"

#### **40 CFR 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 EUTK-001, EUTK-002, EUTK-003, EUTK-004, and EUTK005.

See Appendix for a link to the Standard.

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

#### **40 CFR 60 Subpart VVa Requirements**

This 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. The facility chose to comply with the provisions of NSPS Subpart VVa, 40 CFR Part 60 §60.480a to satisfy the requirements of NSPS Subpart VV. 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 60 Subpart VVa  
567 IAC 23.1(2)"nn"

#### **40 CFR 63 Subpart A Requirements**

This facility is an affected source and these General Provisions apply to the facility. The affected unit is EU25.

See Appendix for a link to the Standard.

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

#### **40 CFR 63 Subpart ZZZZ Requirements**

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHP). The affected unit is EU25.

See Appendix for a link to the Standard.

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



### III. Emission Point-Specific Conditions

Facility Name: POET Biorefining - Jewell  
 Permit Number: 18-TV-004-M001

#### Emission Point ID Number: EP SV1

##### Associated Equipment

Emission Unit vented through this Emission Point	Emission Unit Description	Raw Material	Rated Capacity (tons/hr)	Emissions Control Equipment ID Number	Emissions Control Equipment Description
EU1	Three Grain Receiving Pits via Truck and Rail	Grain	840 tons/year; combined	CE CS1	Baghouse
EU2	Two Grain Legs and Conveying System				
EU3	Six Grain Bins				
EU027	DDGS Loadout		160 tons/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: Opacity

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

Authority for Requirement: DNR Construction Permit 05-A-424-S9  
 40 CFR 60 Subpart DD  
 567 IAC 23.1(2) "ooo"

<sup>(1)</sup> Per 40 CFR §60.11 of Subpart A, the limit is based on thirty 6-minute averages and applies at all times, except during periods of startup, shutdown, and malfunction.

Pollutant: Particulate Matter (PM) – Federal

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-424-S9  
 40 CFR 60 Subpart DD  
 567 IAC 23.1(2) "ooo"

Pollutant: Particulate Matter (PM) - State  
Emission Limit(s): 0.6 lb/hr<sup>(2)</sup>; 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.4(7)  
DNR Construction Permit 05-A-424-S9

<sup>(2)</sup>This emission limit also applies to PM<sub>10</sub> and PM<sub>2.5</sub>.

Pollutant: Volatile Organic Compounds (VOCs)  
Emission Limit(s): 1.17 lb/hr; 0.0073 lb/ton DDGS loaded out  
Authority for Requirement: DNR Construction Permit 05-A-424-S9

Pollutant: Acetaldehyde  
Emission Limit(s): 0.10 lb/hr; 0.0006 lb/ton DDGS loaded out  
Authority for Requirement: DNR Construction Permit 05-A-424-S9

Pollutant: Hazardous Air Pollutant (HAP), Total  
Emission Limit(s): 0.31 lb/hr; 0.0019 lb/ton DDGS loaded out  
Authority for Requirement: DNR Construction Permit 05-A-424-S9

### **NSPS Applicability**

Emission units 1 and 2 are subject to New Source Performance Standards (NSPS) Subpart DD - Standards of Performance for *Grain Elevators* and Subpart A - *General Provisions*.

Authority for Requirement: DNR Construction Permit 05-A-424-S9  
40 CFR Part 60 Subpart DD  
567 IAC 23.1(2)"ooo"

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

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

### **Equipment Operation and Throughput Limit Requirements**

- A. The owner or operator shall operate the baghouse (CE-CS1) at all times that any of the emission units described in this permit is in operation.
- B. The owner or operator shall lock out the aeration fan during the loading of the grain bins (EU-3) and shall continue to operate the system under negative pressure (vent emissions through the baghouse, CE-CS1) for a minimum of 30 minutes after the loading of the grain bins (EU-3) has been completed.
- C. The owner or operator shall conduct visible emissions observations on Emission Point SV1 once per week. This requirement shall not apply when none of the emission units described in this permit is in operation.
  - i. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.
  - ii. If visible emissions from EP-SV1 are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the

- associated operations or equipment.
- iii. The owner or operator shall maintain a record of all corrective actions taken.
- D. The facility (Plant No. 40-02-002) is limited to receiving and/or processing the following grains: corn, wheat, and sorghum.
- E. The maximum amount of grain received and/or processed at Plant No. 40-02-002 shall not exceed 37.5 million bushels per rolling 12-month period.
- i. The owner or operator shall record the total amount, in bushels, of grain received and/or processed at Plant No. 40-02-002 on a monthly basis.
  - ii. The owner or operator shall calculate and record the total amount, in bushels, of grain received and/or processed at Plant No. 40-02-002 on a rolling 12-month basis.
- F. The maximum amount of DDGS loaded out at Plant No. 40-02-002 shall not exceed 346,067 tons per rolling 12-month period.
- i. The owner or operator shall record the total amount, in tons, of the DDGS loaded out at Plant No. 40-02-002 on a monthly basis.
  - ii. The owner or operator shall calculate and record the total amount, in tons, of the DDGS loaded out at Plant No. 40-02-002 on a rolling 12-month basis.

#### New Source Performance Standards Requirements

- G. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subparts A and DD, including those not specifically mentioned in this permit.
- i. The owner or operator shall comply with the applicable testing requirements in §60.8 and §60.11 of Subpart A and in §60.303 of Subpart DD.

#### Control Equipment Requirements

- H. The owner or operator shall inspect and maintain the baghouse (CE-CS1) according to the manufacturer's specifications and instructions and/or the facility's (Plant No. 40-02-002) operation and maintenance plan.
- i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-CS1). At a minimum, this log shall include:
    - i. The date that any inspection and/or maintenance was performed on the baghouse;
    - ii. Any issues identified during the inspection;
    - iii. Any issues addressed during the maintenance activities and the date each issue was resolved; and
    - iv. Identification of the staff member performing the maintenance activities.

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 85
- Stack Opening, (inches, dia.): 36
- Exhaust Flow Rate (scfm): 16,700
- Exhaust Temperature (°F): Ambient
- Discharge Style: Horizontal
- Authority for Requirement: DNR Construction Permit 05-A-424-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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Compliance Demonstration Table**

<b>Pollutant</b>	<b>Compliance Methodology</b>	<b>Frequency</b>	<b>Test Run Time</b>	<b>Test Method</b>
VOC	Stack Testing <sup>(1) (2)</sup>	Once Every Three Years	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
HAP <sup>(3)</sup>	Stack Testing <sup>(1) (2)</sup>	Once Every Three Years	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18

<sup>(1)</sup> VOC and HAP periodic testing to demonstrate compliance with the emission limitations listed under Applicable Requirements of this permit shall be conducted once every three years and only during the months of June, July, or August. The next reoccurring stack tests shall be performed prior to September 2021.

<sup>(2)</sup> VOC and HAP testing shall be conducted while the DDGS Loadout is operating in a worst-case scenario, e.g., highest loadout rate, highest exhaust flow rate, etc.

<sup>(3)</sup> Acetaldehyde, acrolein, formaldehyde, and methanol shall be tested for specifically. The specified HAP that tests below the detection limit shall be assumed to be emitting at a rate equal to the detection limit.

Authority for Requirement: DNR Construction Permit 05-A-424-S9

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP SV2**

### Associated Equipment

Associated Emission Unit ID Numbers: EU4  
Emissions Control Equipment ID Number: CE CS2  
Emissions Control Equipment Description: Baghouse

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Emission Unit vented through this Emission Point: EU4  
Emission Unit Description: Corn Scalper, Conveyor, Surge Bin  
Raw Material/Fuel: Grain  
Rated Capacity: 140 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): 0% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-425-S2  
567 IAC 23.3(2) "ooo"

<sup>(1)</sup> Per 40 CFR §60.302(b)(2) (NSPS Subpart DD), emissions from the baghouse exhaust shall not cause greater than 0% opacity.

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

Emission Limit(s): 0.107 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-425-S2

Pollutant: Particulate Matter (PM) – Federal

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-425-S2  
567 IAC 23.3(2)"ooo"

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.107 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-425-S2

### **NSPS Applicability**

Emission unit 4 is subject to New Source Performance Standards (NSPS) Subpart DD - Standards of Performance for *Grain Elevators* and Subpart A - *General Provisions*.

Authority for Requirement: DNR Construction Permit 05-A-425-S2  
40 CFR Part 60 Subpart DD  
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 facility (Plant ID 40-02-002) is limited to receiving and/or processing the following grains: corn, wheat and sorghum.
- B. The owner or operator shall inspect and maintain the baghouse according to manufacturer's recommendations.

#### **Reporting and Recordkeeping**

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

- A. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 05-A-425-S2

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 68

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 2500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Obstructed

Authority for Requirement: DNR Construction Permit 05-A-425-S2

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

### **Monitoring Requirements**

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

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)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)



**Emission Point ID Numbers: EP SV3, EP SV4, EP SV5, EP SV6, EP SV20**

Associated Equipment

**Table: Hammermills**

<b>Emission Point</b>	<b>Emissions Unit vented through Emission Point</b>	<b>Emissions Unit Description</b>	<b>Raw Material</b>	<b>Rated Capacity (tons/hr)</b>	<b>Emissions Control Equipment ID Number</b>	<b>Emissions Control Equipment Description</b>	<b>Construction Permit Number</b>
EP SV3	EU5	Hammermill #1	Grain	24	CE CS3	Baghouse	05-A-426-S5
EP SV4	EU6	Hammermill #2		24	CE CS4	Baghouse	05-A-427-S5
EP SV5	EU7	Hammermill #3		24	CE CS5	Baghouse	05-A-428-S5
EP SV6	EU8	Hammermill #4		24	CE CS6	Baghouse	05-A-429-S5
EP SV20	EU24	Hammermill #5		24	CE CS21	Baghouse	06-A-317-S4

**Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permits listed in Table: Hammermills  
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)

Emission Limit(s): 0.31 lb/hr<sup>(2)</sup>; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits listed in Table: Hammermills  
567 IAC 23.4(7)

<sup>(2)</sup> This emission limit also applies to PM<sub>10</sub> and PM<sub>2.5</sub>.

### **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.*

### **EQUIPMENT OPERATION and THROUPTUT LIMITS REQUIREMENTS**

- A. The owner or operator shall operate the control equipment described in this "*Collection of Air Permits*" at all times that the associated emission unit described in this "*Collection of Air Permits*" is in operation.
- B. The owner or operator shall conduct visible emissions observations on Emission Points SV3, SV4, SV5, SV6, and SV20 once per week. This requirement shall not apply when the associated emission unit described in this "*Collection of Air Permits*" is not in operation.
  - i. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.
  - ii. If visible emissions from any of the emission points described in this "*Collection of Air Permits*" are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated operations or equipment.
  - iii. The owner or operator shall maintain a record of all corrective actions taken.
- C. The facility (Plant No. 40-02-002) is limited to receiving and/or processing the following grains: corn, sorghum, or wheat.
- D. The owner or operator shall keep records of the amount of sorghum and wheat processed at Plant No. 40-02-002 on a monthly basis.
  - i. The first time the facility processes more than 25,200 bushels of sorghum or more than 8,400 bushels of wheat in a month, the owner or operator shall notify the Department within five (5) work days.

### **Control Equipment Requirements**

- E. The owner or operator shall inspect and maintain the control equipment described in this "*Collection of Air Permits*" according to the manufacturer's specifications and instructions and/or the facility's (Plant No. 40-02-002) operation and maintenance plan.
  - i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment described in this "*Collection of Air Permits.*" At a minimum, this log shall include:
    - 1.The date that any inspection and/or maintenance was performed on the control equipment;
    - 2.Any issues identified during the inspection;
    - 3.Any issues addressed during the maintenance activities and the date each issue was resolved; and
    - 4.Identification of the staff member performing the maintenance activities.

Authority for Requirement: DNR Construction Permits listed in Table: Hammermills

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 15

Stack Opening, (inches, dia.): 16 x 16

Exhaust Flow Rate (scfm): 12,000

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permits listed in Table: Hammermills

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: EP SV7

### Associated Equipment

Associated Emission Unit ID Numbers: EU9a, EU9b, EU9c, EU10

Emissions Control Equipment ID Number: CE CS7

Emissions Control Equipment Description: Packed Bed Wet Scrubber

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EU	Emissions Unit Description	Raw Material	Maximum Capacity
EU9a	Yeast Propagation Tank	Yeast	19,800 gallons
EU9b	7 Batch Mash Fermenters	Corn Mash	730,000 gal/fermenter 69,000 gal/hr mash
EU9c	Beer Well	Beer	889,000 gallons
EU10	Distillation Process: Evaporator, (2) Strippers, (3) Sieves, Rectifier, Surge Tank	Beer	1,100 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 05-A-430-S9  
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)

Emission Limit(s): 0.30 lb/hr<sup>(2)(3)</sup>; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-430-S9  
567 IAC 23.4(7)

<sup>(2)</sup> This emission limit also applies to PM<sub>10</sub> and PM<sub>2.5</sub>.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 30.07 lb/hr<sup>(3)</sup>

Authority for Requirement: DNR Construction Permit 05-A-430-S9

Pollutant: Single HAP (Acetaldehyde)

Emission Limit(s): 5.72 lb/hr<sup>(3)</sup>

Authority for Requirement: DNR Construction Permit 05-A-430-S9

Pollutant: Total HAP

Emission Limit(s): 8.58 lb/hr<sup>(3)</sup>

Authority for Requirement: DNR Construction Permit 05-A-430-S9

<sup>(3)</sup> Emission limit established for no more than 500 hours per year of operation.

### **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.*

### **Equipment Operation Requirements**

- A. The owner or operator shall operate Packed Bed Wet Scrubber CS7 at all times any of the emission units listed in this emission point exhausts through Emission Point SV7.
- B. The emission units described in this emission point shall exhaust through Emission Point SV7 for no more than 500 hours per 12-month rolling period.
  - i. The owner or operator shall record the number of hours that any of the emission units described in Condition 3b of this permit exhausts through Emission Point SV7 on a monthly basis.
  - ii. The owner or operator shall calculate and record the number of hours that any of the emission units described in this emission point exhausts through Emission Point SV7 on a rolling 12-month basis.

### **Control Equipment Requirements**

- C. Whenever any of the emission units described in this emission point exhausts through Emission Point SV7, the owner or operator shall maintain a 4-hour average differential pressure drop across Packed Bed Wet Scrubber CS7 between 1 and 12 inches of water column (as specified by the manufacturer). This requirement shall not apply when Emission Point SV7 is not in use.
  - iv. The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the pressure drop (in inches of water column) across Packed Bed Wet Scrubber CS7 whenever any of the emission units described in this emission point exhausts through Emission Point SV7. This equipment shall be installed, operated, and maintained in accordance with the manufacturer's specifications and/or the facility's operation and maintenance plan.
  - v. Whenever any of the emission units described this emission point exhausts through Emission Point SV7, the owner or operator shall collect and record the pressure drop (in inches of water column) across Packed Bed Wet Scrubber CS7 at a minimum of once every 15 minutes and calculate and record the 3-hour average differential pressure drop for the scrubber. The 4-hour average differential pressure drop across Packed Bed Wet Scrubber CS7 shall be calculated using all data points collected during the averaging period.
  - vi. If any of the differential pressure drop (in inches of water column) 4-hour averages

across Packed Bed Wet Scrubber CS7 falls outside the required range, the owner or operator shall record the time, date, and actions taken to correct the situation and shall record when the average differential pressure drop is back within the required range.

- D. Whenever any of the emission units described in this emission point exhausts through Emission Point SV7, the owner or operator shall maintain a 3-hour average total liquor flow rate (in gallons per minute) into Packed Bed Wet Scrubber CS7 at or above the average rate observed during the most recent stack test that demonstrated compliance with the emission limits in Applicable Requirements of this permit. This requirement shall not apply when Emission Point SV7 is not in use.
- i. The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the total liquor flow rate (in gallons per minute) into Packed Bed Wet Scrubber CS7 whenever any of the emission units described in Condition 3b of this permit exhausts through Emission Point SV7. This equipment shall be installed, operated, and maintained in accordance with the manufacturer's specifications and/or the facility's operation and maintenance plan.
  - ii. Whenever any of the emission units described this emission point exhausts through Emission Point SV7, the owner or operator shall collect and record the total liquor flow rate (in gallons per minute) into Packed Bed Wet Scrubber CS7 at a minimum of once every 15 minutes and calculate and record the 3-hour average total liquor flow rate into the scrubber. The 3-hour average total liquor flow rate into Packed Bed Wet Scrubber CS7 shall be calculated using all data points collected during the averaging period.
  - iii. If any of the total liquor flow rate (in gallons per minute) 3-hour averages into Packed Bed Wet Scrubber CS7 falls below the minimum required value, the owner or operator shall record the time, date, and actions taken to correct the situation and shall record when the average total liquor flow rate is back at or above the minimum required value.
  - iv. Use of a lower total liquor flow rate requires the owner or operator to first obtain a variance to test the lower total liquor flow rate. The owner or operator shall submit the test results to the Department for review and approval. Once approved, the owner or operator shall be allowed to use the lower total liquor flow rate.
- E. Whenever any of the emission units described this emission point exhausts through Emission Point SV7, the owner or operator shall maintain a 3-hour average additive feed rate (in milliliters per minute) into Packed Bed Wet Scrubber CS7 at or above the average rate observed during the most recent stack test that demonstrated compliance with the emission limits in Applicable Requirements of this permit. This requirement shall not apply when Emission Point SV7 is not in use.
- i. The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the additive feed rate (in milliliters per minute) into Packed Bed Wet Scrubber CS7 whenever any of the emission units described in Condition 3b of this permit exhausts through Emission Point SV7. This equipment shall be installed, operated, and maintained in accordance with the manufacturer's specifications and/or the facility's operation and maintenance plan.
  - ii. Whenever any of the emission units described this emission point exhausts through

Emission Point SV7, the owner or operator shall collect and record the additive feed rate (in milliliters per minute) into Packed Bed Wet Scrubber CS7 at a minimum of once every 15 minutes and calculate and record the 3-hour average additive feed rate into the scrubber. The 3-hour average additive feed rate into Packed Bed Wet Scrubber CS7 shall be calculated using all data points collected during the averaging period.

- iii. If any of the additive feed rate (in milliliters per minute) 3-hour averages into Packed Bed Wet Scrubber CS7 falls below the minimum required value, the owner or operator shall record the time, date, and actions taken to correct the situation and shall record when the average additive feed rate is back at or above the minimum required value.
  - iv. Use of a different additive and/or use of a lower additive feed rate requires the owner or operator to first obtain a variance to test the new additive and/or the lower additive feed rate. The owner or operator shall submit the test results to the Department for review and approval. Once approved, the owner or operator shall be allowed to use the new additive and/or the lower additive feed rate.
- F. The owner or operator shall maintain on-site a copy of the report for the most recent stack conducted on Emission Point SV7 that demonstrated compliance with the emission limits in Applicable Requirements of this permit. At a minimum, this report shall include:
- i. The emission rates (in pounds per hour) observed during the testing;
  - ii. The average differential pressure drop (in inches of water column) across Packed Bed Wet Scrubber CS7 observed during the testing;
  - iii. The average total liquor flow rate (in gallons per minute) into Packed Bed Wet Scrubber CS7 during the testing;
  - iv. The type of additive used during the testing;
  - v. The average additive feed rate (in milliliters per minute) into Packed Bed Wet Scrubber CS7 during the testing; and
  - vi. The average beerfeed rate (in gallons per minute) observed during the testing.
- G. The owner or operator shall inspect and maintain Packed Bed Wet Scrubber CS7 according to the manufacturer's specifications and/or the facility's (Plant No. 40-02-002) operation and maintenance plan.
- i. The owner or operator shall keep a log of all maintenance and inspection activities performed on Packed Bed Wet Scrubber CS7. At a minimum, this log shall include the following:
    - 1. The date that any inspection and/or maintenance was performed on the scrubber;
    - 2. Any issues identified during inspection;
    - 3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
    - 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 05-A-430-S9

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 68
- Stack Opening, (inches, dia.): 24
- Exhaust Flow Rate (scfm): 11,000
- Exhaust Temperature (°F): 70
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 05-A-430-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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)



**Emission Point ID Number: EP SV8**

Associated Equipment

Associated Emission Unit ID Numbers: EU9a-c, EU10, EU14, EU15, EU16, EU17, EU11, EU12, EU26

Emissions Control Equipment ID Number: CE CS7, CE CS8, CE CS9, CE CS10

Emissions Control Equipment Description: Packed Bed Wet Scrubber, Multiclone #1, Multiclone #2, Regenerative Thermal Oxidizer (30 MMBtu/hr)

EU	Emissions Unit Description	Maximum Capacity	First Control Device	Final Control Device
EU9a	Yeast Propagation Tank	19,800 gallons yeast	Packed Bed Wet Scrubber (CE CS7)	Regenerative Thermal Oxidizer, 30 MMBtu/hr (CE CS10)
EU9b	7 Batch Mash Fermenters	730,000 gallons per fermenter; 69,000 gal/hr mash, total		
EU9c	Beer Well	889,000 gallons		
EU10	Distillation Process: Evaporator, (2) Strippers, (3) Sieves, Rectifier	1,100 gal/min beer		
EU14	Centrifuge #1	300 gal/min whole stillage (each)	None	
EU15	Centrifuge #2			
EU16	Centrifuge #3			
EU17	Centrifuge #4			
EU11	DDGS Dryer 1	32 tons/hr DDGS (each); 60 MMBtu/hr (each)	Multiclone #1 (CE CS8) & Multiclone #2 (CE CS9)	
EU12	DDGS Dryer 2			
EU26	Corn Oil Separation System: Skim Centrifuge, Oil Centrifuge, Defatted Emulsion Tank, and Defatted Syrup Tank	140 gallons syrup/minute	None	

## **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-431-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)

Emission Limit(s): 10.20 lb/hr<sup>(2)</sup>; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-431-S9  
567 IAC 23.4(7)

<sup>(2)</sup> This emission limit also applies to PM<sub>10</sub> and PM<sub>2.5</sub>.

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

Emission Limit(s): 0.11 lb/hr; 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-431-S9  
567 IAC 23.3(3)"e"

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

Emission Limit(s): 14.82 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-431-S9

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 6.99 lb/hr<sup>(3)</sup>; 36.46 lb/hr<sup>(4)</sup>

Authority for Requirement: DNR Construction Permit 05-A-431-S9

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 20.15 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-431-S9

Pollutant: Single HAP (Acetaldehyde)

Emission Limit(s): 0.48 lb/hr<sup>(3)</sup>; 1.09 lb/hr<sup>(4)</sup>

Authority for Requirement: DNR Construction Permit 05-A-431-S9

Pollutant: Total HAP

Emission Limit(s): 1.20 lb/hr<sup>(3)</sup>; 2.40 lb/hr<sup>(4)</sup>

Authority for Requirement: DNR Construction Permit 05-A-431-S9

<sup>(3)</sup> The emission limit applies at all times, except when Packed Bed Wet Scrubber CS7 is by-passed and when the RTO CS10 is shut down for maintenance.

<sup>(4)</sup> The emission limit is established to limit bypass of Packed Bed Wet Scrubber CS7 to no more than 150 hours to maintain potential emissions below major threshold.

**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.*

**Equipment Operation Requirements**

- A. DDGS Dryer #1, DDGS Dryer #2, and RTO CS10 shall combust only natural gas and/or process off-gases.
- B. The owner or operator may by-pass Packed Bed Wet Scrubber CS7 and vent emissions directly to RTO CS10 for no more than 150 hours per 12-month rolling period.
  - iii. The owner or operator shall record the number of hours that Packed Bed Wet Scrubber CS7 is by-passed on a monthly basis.
  - iv. The owner or operator shall calculate and record the number of hours that Packed Bed Wet Scrubber CS7 is by-passed on a rolling 12-month basis.
- C. RTO CS10 shall be operated at all times that process streams from DDGS Dryer #1 and DDGS Dryer #2 are vented to it.
- D. RTO CS10 operating temperature, measured as a 3-hour average, shall be maintained at no less than 50 degrees Fahrenheit below the average temperature recorded during the most recent stack test that demonstrated compliance with all applicable emission limitations.
  - i. The owner or operator shall retain the most recent stack test for RTO CS10 that demonstrated compliance with all applicable emission limitations.
  - ii. The owner or operator shall document the average temperature of RTO CS10 recorded during the most recent stack test that demonstrated compliance with all applicable emission limitations.
  - iii. The owner or operator shall determine the minimum operating temperature of RTO CS10 as follows:
    - 1. Minimum Operating Temperature = Highest average temperature recorded during the most recent stack test that demonstrated compliance with all applicable emission limitations – 50°F
  - iv. The owner or operator shall continuously collect and record the operating temperature, in degrees Fahrenheit, of RTO CS10.
  - v. The owner or operator shall calculate and record the operating temperature 3-hour averages, in degrees Fahrenheit, of RTO CS10.
    - 1. If any operating temperature 3-hour average does not comply with the minimum operating temperature, the owner or operator shall investigate and make any necessary corrections.
- E. The owner or operator shall maintain records of the frequency and amount of time that RTO CS10 malfunctions and shall estimate and record the emissions emitted during said malfunctions. All excess emission reporting shall be conducted in accordance with General Conditions G30 of this permit.

### Control Equipment Requirements

- F. The owner or operator shall inspect and maintain Packed Bed Wet Scrubber CS7, Multiclone CS8, Multiclone CS9, and RTO CS10 according to the manufacturer's specifications and/or the facility's (Plant No. 40-02-002) operation and maintenance plan.
- i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. At a minimum, this log shall include:
- 1.The date that any inspection and/or maintenance was performed on the control equipment;
  - 2.Any issues identified during the inspection;
  - 3.Any issues addressed during the maintenance activities and the date each issue was resolved;
  - 4.Any actions taken to correct the RTO operating temperature malfunctions; and
  - 5.Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 05-A-431-S9

### Emission Point Characteristics

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

Stack Height, (ft, from the ground): 100

Stack Opening, (inches, dia.): 76

Exhaust Flow Rate (scfm): 84,000

Exhaust Temperature (°F): 320

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-431-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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Compliance Demonstration Table**

<b>Pollutant</b>	<b>Compliance Methodology</b>	<b>Frequency</b>	<b>Test Run Time</b>	<b>Test Method</b>
PM – State	Stack Testing <sup>(1) (2) (3)</sup>	Once Every 3 Years <sup>(2)</sup>	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
VOC	Stack Testing <sup>(1) (2) (3)</sup>	Once Every 3 Years <sup>(2)</sup>	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
HAP <sup>(4)</sup>	Stack Testing <sup>(1) (2) (3)</sup>	Once Every 3 Years <sup>(2)</sup>	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18

<sup>(1)</sup> PM, VOC, and HAP initial testing to demonstrate compliance with the applicable emission limits of this permit shall be completed once when Packed Bed Wet Scrubber CS7 is operating and once when the scrubber is by-passed. The initial testing shall be completed within 90 days of issuance of Construction Permit 05-A-431-S9 and it shall be conducted while all affected equipment is operating in a worst-case scenario, e.g., highest production rate, highest exhaust flow rate, etc. Initial testing was conducted December 18th-20<sup>th</sup>, 2019 and demonstrated compliance.

<sup>(2)</sup> PM, VOC, and HAP periodic testing to demonstrate compliance with the applicable emission limits of this permit shall be completed once every three years for when Packed Bed Wet Scrubber CS7 is operating. Periodic testing shall be completed during the months of June, July, or August and it shall be conducted while all affected equipment is operating in a worst-case scenario, e.g., highest production rate, highest exhaust flow rate, etc.

<sup>(3)</sup> Additional stack testing for when Packed Bed Wet Scrubber CS7 is operating and for when the scrubber is by-passed will be triggered after each of the following:

- a. The first time the hammer mills process more than 25,200 bushels of sorghum in a month. The test shall be run while the facility is processing at least 30% by weight of sorghum.
- b. The first time the hammer mills process more than 8,400 bushels of wheat in a month. The test shall be run while the facility is processing at least 10% by weight of wheat.

<sup>(4)</sup> Acetaldehyde, acrolein, formaldehyde, and methanol shall be tested for specifically. The specified HAP that tests below the detection limit shall be assumed to be emitting at a rate equal to the detection limit.

Authority for Requirement: DNR Construction Permit 05-A-431-S9

**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 SV9**

### Associated Equipment

Associated Emission Unit ID Numbers: EU18  
Emissions Control Equipment ID Number: CE CS12  
Emissions Control Equipment Description: Pulse Jet Baghouse

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Emission Unit vented through this Emission Point: EU18  
Emission Unit Description: DDGS Fluid Bed Cooler  
Raw Material/Fuel: DDGS  
Rated Capacity: 32 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 05-A-432-S5  
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 1.02 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-432-S5

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 1.02 lb/hr; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 05-A-432-S5  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 7.26 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-432-S5

Pollutant: Single HAP  
Emission Limit(s): 1.0 lb/hr <sup>(2)</sup>  
Authority for Requirement: DNR Construction Permit 05-A-432-S5

<sup>(2)</sup> The specific Individual HAPs, for which this emission limit applies, are acetaldehyde, acrolein, formaldehyde and methanol.

Pollutant: Total HAP

Emission Limit(s): 1.59 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-432-S5

**Operating Requirements with Associated 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.*

The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's recommendations.
- B. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 05-A-432-S5

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 70

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 22,525

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-432-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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.



**Monitoring Requirements**

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP SV10**

### Associated Equipment

Associated Emission Unit ID Numbers: EU19  
Emissions Control Equipment ID Number: CE CS13  
Emissions Control Equipment Description: Pulse Jet Baghouse

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Emission Unit vented through this Emission Point: EU19  
Emission Unit Description: DDGS Storage Silo  
Raw Material/Fuel: DDGS  
Rated Capacity: 32 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 05-A-433-S3  
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): 0.171 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-433-S3

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.171 lb/hr; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 05-A-433-S3  
567 IAC 23.4(7)

#### **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.*

The operating requirements and associated recordkeeping for this permit shall be:

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

B. The owner or operator shall keep records of control equipment inspections and maintenance

Authority for Requirement: DNR Construction Permit 05-A-433-S3

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 121

Stack Opening, (inches, dia.): 18 x 18

Exhaust Flow Rate (scfm): 4000

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 05-A-433-S3

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

**Monitoring Requirements**

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP SV11**

### Associated Equipment

Associated Emission Unit ID Numbers: EU20  
Emissions Control Equipment ID Number: CE CS14  
Emissions Control Equipment Description: Pulse Jet Baghouse

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Emission Unit vented through this Emission Point: EU20  
Emission Unit Description: DDGS Storage Silo Bypass  
Raw Material/Fuel: DDGS  
Rated Capacity: 32 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 05-A-434-S5  
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): 0.171 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-434-S5

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.171 lb/hr; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 05-A-434-S5  
567 IAC 23.4(7)

#### **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.*

The operating requirements and associated recordkeeping for this permit shall be:

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

B. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 05-A-434-S5

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 86

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 4000

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 05-A-434-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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP SV12, EP SV13**

### Associated Equipment

Associated Emission Unit ID Numbers: EU21, EU22  
Emissions Control Equipment ID Number: CE CS29, CE CS30  
Emissions Control Equipment Description: Low NO<sub>x</sub> Burners

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Emission Units vented through these Emission Points: EU21, EU22  
Emission Unit Description: Boiler #1, Boiler #2  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 143 MMBtu/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permits 05-A-435-S3, 05-A-436-S3  
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): 1.07 lb/hr

Authority for Requirement: DNR Construction Permits 05-A-435-S3, 05-A-436-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.07 lb/hr; 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permits 05-A-435-S3, 05-A-436-S3  
567 IAC 23.3(2) "b"

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

Emission Limit(s): 0.1 lb/hr; 500 ppmv

Authority for Requirement: DNR Construction Permits 05-A-435-S3, 05-A-436-S3  
567 IAC 23.3(3) "e"

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

Emission Limit(s): 5.72 lb/hr; 0.1 lb/MMBtu <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 05-A-435-S3, 05-A-436-S3  
567 IAC 23.1(2) "ccc"

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.77 lb/hr

Authority for Requirement: DNR Construction Permits 05-A-435-S3, 05-A-436-S3

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 4.86 lb/hr

Authority for Requirement: DNR Construction Permits 05-A-435-S3, 05-A-436-S3

### **NSPS Applicability**

These emission points are subject to New Source Performance Standards (NSPS) Subpart Db - *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units*. This boiler is also subject to NSPS Subpart A – General Provision.

Authority for Requirement: DNR Construction Permits 05-A-435-S3, 05-A-436-S3  
40 CFR Part 60 Subpart Db  
567 IAC 23.1(2)"ccc"

### **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 combust only natural gas in these units.
- B. The owner or operator shall follow the applicable standards of Subpart Db, 40 CFR 60.40b through 60.49b

#### Reporting and Recordkeeping

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

- A. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day, and 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, as required in 40 CFR 60.49b(d). The annual capacity factor is defined as the ratio between the actual heat input to a steam generating unit during a calendar year, and the potential heat input had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.
- B. The owner or operator shall maintain records of the following information for each steam generating unit operating day, as required in 40 CFR 60.49b(g). This information shall also be submitted in a report, as required in 40 CFR 60.49b(i).
  - 1. Calendar date.

2. Average hourly nitrogen oxides emission (as NO<sub>2</sub>) rates measured or predicted.
3. 30-day average nitrogen oxides 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.
4. Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the emission standard, with the reason for such excess emissions as well as a description of corrective actions taken.
5. 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.
6. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.
7. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.
8. Identification of the times when the pollutant concentrations exceeded the full span of the continuous monitoring system.
9. Description of any modifications to the continuous monitoring system that could affect the ability of the CMS to comply with Performance Specification 2 or 3.
10. Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR Appendix F, Procedure 1.

Authority for Requirement: DNR Construction Permits 05-A-435-S3, 05-A-436-S3

**Emission Point Characteristics**

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

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

Stack Opening, (inches, dia.): 54

Exhaust Flow Rate (acfm): 40,000

Exhaust Temperature (°F): 280

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 05-A-435-S3, 05-A-436-S3

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



**Monitoring Requirements**

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

**Continuous Emissions Monitoring:**

The owner or operator shall install, calibrate, maintain and operate a continuous monitoring system for each unit, and record the output of the system, for measuring nitrogen oxides emissions discharged to the atmosphere. The CEM shall be operated and data collected as required under 40 CFR §60.48b(c), (d), (e) and (f), or use an approved alternative monitoring plan.

- Pollutant - NO<sub>x</sub>
- Operational Specifications – 40 CFR 60 Appendix B
- Date of Initial System Calibration and Quality Assurance – September 2011
- Ongoing System Calibration/Quality Assurance - 40 CFR 60
- Reporting & Record keeping - 40 CFR 60
- Authority for Requirement - DNR Construction Permits 05-A-435-S3, 05-A-436-S3

*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 SV14**

### Associated Equipment

Associated Emission Unit ID Numbers: EU TK-001  
Emissions Control Equipment ID Number: CE TK001  
Emissions Control Equipment Description: Internal Floating Roof

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Emission Unit vented through this Emission Point: EU TK-001  
Emission Unit Description: 190 Proof Storage Tank  
Raw Material/Fuel: Ethanol  
Rated Capacity: 250,000 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 application emission limits at this time.

#### **NSPS Applicability**

This emission unit is subject to New Source Performance Standards (NSPS) Subpart Kb, *Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)* for which Construction, Reconstruction or Modification Commenced after July 23, 1984, and Subpart A – *General Provisions*.

Authority for Requirement: DNR Construction Permit 05-A-437-S5  
40 CFR Part 60 Subpart Kb  
567 IAC 23.1(2)"ddd"

#### **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.*

The operating requirements and associated recordkeeping for this permit shall be:

- A. The fixed roof in combination with an internal roof shall meet the specifications as stated in 40 CFR §60.112b(a)(1).
- B. The owner or operator shall keep records and furnish reports as specified in 40 CFR §60.115b, Reporting and recordkeeping requirements.
- C. The owner or operator shall keep copies of all records required by 40 CFR §60.116b.
- D. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and analysis showing the capacity of the vessel, as specified in 40 CFR

§60.116b(b).

- E. The owner or operator shall maintain a record of the volume stored, the period of storage, and the maximum true vapor pressure of that volume during the respective storage period, as specified in 40 CFR §60.116b(c).
- F. The amount of ethanol processed at this facility (Plant ID: 40-02-002) shall not exceed 100.0 million gallons of undenatured ethanol per 12-month rolling period.
- G. The owner or operator shall record the facility-wide undenatured ethanol throughput in gallons on a monthly basis, and calculate and record the 12-month rolling total.

Authority for Requirement: DNR Construction Permit 05-A-437-S5

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 35

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): Working and Breathing Losses

Exhaust Temperature (°F): Ambient

Discharge Style: Downwards

Authority for Requirement: DNR Construction Permit 05-A-437-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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP SV15**

### Associated Equipment

Associated Emission Unit ID Numbers: EU TK-002

Emissions Control Equipment ID Number: CE TK002

Emissions Control Equipment Description: Internal Floating Roof

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Emission Unit vented through this Emission Point: EU TK-002

Emission Unit Description: Denaturant Storage Tank

Raw Material/Fuel: Denaturant

Rated Capacity: 270,000 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 applicable emissions limits at this time.

### **NSPS Applicability**

This emission unit is subject to New Source Performance Standards (NSPS) Subpart Kb, *Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)* for which Construction, Reconstruction or Modification Commenced after July 23, 1984, and Subpart A – *General Provisions*.

Authority for Requirement: DNR Construction Permit 05-A-438-S5  
40 CFR Part 60 Subpart Kb  
567 IAC 23.1(2)"ddd"

### **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.*

The operating requirements and associated recordkeeping for this permit shall be:

- A. The fixed roof in combination with an internal roof shall meet the specifications as stated in 40 CFR §60.112b(a)(1).
- B. The owner or operator shall keep records and furnish reports as specified in 40 CFR §60.115b, Reporting and recordkeeping requirements.
- C. The owner or operator shall keep copies of all records required by 40 CFR §60.116b.
- D. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and analysis showing the capacity of the vessel, as specified in 40 CFR §60.116b(b).

- E. The owner or operator shall maintain a record of the volume stored, the period of storage, and the maximum true vapor pressure of that volume during the respective storage period, as specified in 40 CFR §60.116b(c).
- F. The amount of denaturant used at this facility (Plant ID: 40-02-002) shall not exceed 8.6 million gallons of denaturant per 12-month rolling period.
- G. The owner or operator shall record the facility-wide denaturant throughput in gallons on a monthly basis, and calculate and record the 12-month rolling total.

Authority for Requirement: DNR Construction Permit 05-A-438-S5

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 35  
 Stack Opening, (inches, dia.): 10  
 Exhaust Flow Rate (scfm): Working and Breathing Losses  
 Exhaust Temperature (°F): Ambient  
 Discharge Style: Downwards  
 Authority for Requirement: DNR Construction Permit 05-A-438-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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: EP SV16, EP SV17**

Associated Equipment

Associated Emission Unit ID Numbers: EU TK-003, EU TK-004  
Emissions Control Equipment ID Number: CE TK003, CE TK004  
Emissions Control Equipment Description: Internal Floating Roofs

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Emission Unit vented through this Emission Point: EU TK-003, EU TK-004  
Emission Unit Description: 200 Proof Ethanol Storage Tank  
Raw Material/Fuel: Ethanol  
Rated Capacity: 1,500,000 gallons

**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 applicable emission limits at this time.

**NSPS Applicability**

These emission units are subject to New Source Performance Standards (NSPS) Subpart Kb, *Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)* for which Construction, Reconstruction or Modification Commenced after July 23, 1984, and Subpart A – *General Provisions*.

Authority for Requirement: DNR Construction Permits 05-A-439-S6; 05-A-440-S6  
40 CFR Part 60 Subpart Kb  
567 IAC 23.1(2)"ddd"

**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.*

The operating requirements and associated recordkeeping for this permit shall be:

- A. The fixed roof in combination with an internal roof shall meet the specifications as stated in 40 CFR §60.112b(a)(1).
- B. The owner or operator shall keep records and furnish reports as specified in 40 CFR §60.115b, Reporting and recordkeeping requirements.
- C. The owner or operator shall keep copies of all records required by 40 CFR §60.116b.
- D. The owner or operator shall keep readily accessible records showing the dimension of the

storage vessel and analysis showing the capacity of the vessel, as specified in 40 CFR §60.116b(b).

- E. The owner or operator shall maintain a record of the volume stored, the period of storage, and the maximum true vapor pressure of that volume during the respective storage period, as specified in 40 CFR §60.116b(c).
- F. The amount of ethanol processed at this facility (Plant ID: 40-02-002) shall not exceed 100.0 million gallons of undenatured ethanol per 12-month rolling period.
- G. The owner or operator shall record the facility-wide undenatured ethanol throughput in gallons on a monthly basis, and calculate and record the 12-month rolling total

Authority for Requirement: DNR Construction Permits 05-A-439-S6; 05-A-440-S6

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 51

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): Working and Breathing Losses

Exhaust Temperature (°F): Ambient

Discharge Style: Downwards

Authority for Requirement: DNR Construction Permits 05-A-439-S6; 05-A-440-S6

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP SV18**

### Associated Equipment

Associated Emission Unit ID Numbers: EU TK-005

Emissions Control Equipment ID Number: CE TK005

Emissions Control Equipment Description: Internal Floating Roof

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Emission Unit vented through this Emission Point: EU TK-005

Emission Unit Description: Denaturant or 190 Proof Storage Tank

Raw Material/Fuel: Denaturant or Ethanol

Rated Capacity: 126,900 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 applicable emission limits at this time.

#### **NSPS Applicability**

This emission unit is subject to New Source Performance Standards (NSPS) Subpart Kb, *Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)* for which Construction, Reconstruction or Modification Commenced after July 23, 1984, and Subpart A – *General Provisions*.

Authority for Requirement: DNR Construction Permit 05-A-441-S6  
40 CFR Part 60 Subpart Kb  
567 IAC 23.1(2)"ddd"

#### **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.*

The operating requirements and associated recordkeeping for this permit shall be:

- A. The fixed roof in combination with an internal roof shall meet the specifications as stated in 40 CFR §60.112b(a)(1).
- B. The owner or operator shall keep records and furnish reports as specified in 40 CFR §60.115b, Reporting and recordkeeping requirements.
- C. The owner or operator shall keep copies of all records required by 40 CFR §60.116b.
- D. The owner or operator shall keep readily accessible records showing the dimension of the



storage vessel and analysis showing the capacity of the vessel, as specified in 40 CFR §60.116b(b).  
E. The owner or operator shall maintain a record of the volume stored, the period of storage, and the maximum true vapor pressure of that volume during the respective storage period, as specified in 40 CFR §60.116b(c).

F. The amount of ethanol processed at this facility (Plant ID: 40-02-002) shall not exceed 100.0 million gallons of undenatured ethanol per 12-month rolling period.

G. The owner or operator shall record the facility-wide undenatured ethanol throughput in gallons on a monthly basis, and calculate and record the 12-month rolling total.

H. The amount of denaturant used at this facility (Plant ID: 40-02-002) shall not exceed 8.6 million gallons of denaturant per 12-month rolling period.

I. The owner or operator shall record the facility-wide denaturant throughput in gallons on a monthly basis, and calculate and record the 12-month rolling total.

Authority for Requirement: DNR Construction Permit 05-A-441-S6

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 29

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): Working and Breathing Losses

Exhaust Temperature (°F): Ambient

Discharge Style: Downwards

Authority for Requirement: DNR Construction Permit 05-A-441-S6

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP SV19**

### Associated Equipment

Associated Emission Unit ID Numbers: EU25

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Emission Unit vented through this Emission Point: EU25  
Emission Unit Description: Emergency Diesel Generator  
Raw Material/Fuel: Diesel  
Rated Capacity: 2000 kW; 74.8 gal/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 05-A-442-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>10</sub>)

Emission Limit(s): 2.66 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-442-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.66 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-442-S4  
567 IAC 23.3(2) "a"

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

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: DNR Construction Permit 05-A-442-S4  
567 IAC 23.3(3) "b"(2)

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

Emission Limit(s): 54.12 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-442-S4

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 1.71 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-442-S4

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 16.15 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-442-S4

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. This generator is limited to operating a maximum of 100 hours in any rolling 12-month period.
- B. This generator is limited to burn diesel only.
- C. The sulfur content of diesel fuel used in this generator shall not exceed 15 ppm, as required in 40 CFR §63.6604(b).
- D. The owner or operator must meet the following requirement, except during periods of startup, as required in Table 2d in NESHAP Subpart ZZZZ:
  - Change oil annually. The owner or operator also has the option to utilize an oil analysis program as described in 40 CFR §63.6625(i) in order to extend the specified oil change requirement in Table 2d of NESHAP Subpart ZZZZ.
  - Inspect air cleaner annually, and replace as necessary.
  - Inspect all hoses and belts annually, and replace as necessary.
- E. In accordance with 40 CFR §63.6640(f), this engine is limited to operate as an emergency stationary internal combustion engine. The owner or operator must meet the following requirements:
  - There is no limit on the use of the engine in emergency situations provided that the annual hourly limit established in Condition A above is not exceeded. The engine is limited to operate a maximum of 100 hours per year for maintenance checks and readiness testing.
  - The engine is also allowed to operate up to 50 hours per year in non-emergency situations. The 50 hours are counted toward the 100 hours provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for the facility to the electric grid or otherwise supply power as part of a financial arrangement with another entity.

#### **Reporting and Recordkeeping**

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

- A. The owner or operator shall maintain the following monthly records:
  - the total number of hours that the engine operated;
  - the number of hours that the engine operated for allowed non-emergency operations;

- the number of hours that the engine operated for maintenance checks and readiness testing; and
  - the rolling 12-month total amount of the number of hours that the engine operated.
- B. The owner or operator shall maintain the following monthly records:
- the number of hours that the engine operated for maintenance checks and readiness testing; and
  - the number of hours that the engine operated for allowed non-emergency operations.
- C. The owner or operator must operate and maintain the engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, as required in 40 CFR §63.6625(e)(3).
- D. The owner or operator must install a non-resettable hour meter, as required in 40 CFR §63.6625(f).
- E. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup, as required in 40 CFR §63.6625(h).
- F. The owner or operator must report each deviation from an emission or operating limitation to the Department as specified in 40 CFR §63.6650(d).
- G. In accordance with 40 CFR §63.6655(f), the owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

Authority for Requirement: DNR Construction Permit 05-A-442-S4  
 40 CFR 63 Subpart ZZZZ  
 567 IAC 23.1(4)"cz"

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 10

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (Scfm): 7600

Exhaust Temperature (°F): 800

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-442-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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP SV21 (Centrifuge Bypass)**

### Associated Equipment

Associated Emission Unit ID Numbers: EU14, EU15, EU16, EU17

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Emission Unit vented through this Emission Point: EU14, EU15, EU16, EU17

Emission Unit Description: Centrifuge #1, Centrifuge #2, Centrifuge #3, Centrifuge #4

Raw Material/Fuel: Whole Stillage

Rated Capacity: 1,200 gal/min total; 300 gal/min each

### **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): 2.9 lb/hr

Authority for Requirement: DNR Construction Permit 17-A-152

Pollutant: Single HAP

Emission Limit(s): 0.06 lb/hr

Authority for Requirement: DNR Construction Permit 17-A-152

Pollutant: Total HAP

Emission Limit(s): 0.08 lb/hr

Authority for Requirement: DNR Construction Permit 17-A-152

#### **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.*

The operating requirements and associated recordkeeping for this permit shall be:

- A. The centrifuges may bypass the regenerative thermal oxidizer (CE CS10) when the RTO is down for maintenance or when producing wetcake.
- B. The owner or operator shall keep records of the amount of hours the centrifuges bypass the RTO on a monthly basis, and calculate and record the 12-month rolling total.
- C. The owner or operator shall follow the applicable standards of NSPS Subpart VVa, 40 CFR Part §60.480a through §60.489a
- D. The owner or operator shall keep records as required in 40 CFR Part §60.480a through §60.489a.

Authority for Requirement: DNR Construction Permit 17-A-152

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 51  
Stack Opening, (inches, dia.): 10  
Exhaust Flow Rate (scfm): 3,300  
Exhaust Temperature (°F): 200  
Discharge Style: Horizontal  
Authority for Requirement: DNR Construction Permit 17-A-152

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

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – Volatile Organic Compounds (VOC)  
1st Stack Test to be Completed by (date) – Once <sup>(1)</sup>  
Test Method – 40 CFR 63, Appendix A, Method 320 or  
40 CFR 60, Appendix A, Method 18  
Authority for Requirement – DNR Construction Permit 17-A-152

Pollutant – Hazardous Air Pollutants (HAP)  
1st Stack Test to be Completed by (date) – Once <sup>(1) (2)</sup>  
Test Method - 40 CFR 63, Appendix A, Method 320 or  
40 CFR 60, Appendix A, Method 18  
Authority for Requirement - DNR Construction Permit 17-A-152

- <sup>(1)</sup> Stack testing shall be required within 180 days after emissions have been vented through this emission point for greater than 350 hours in a rolling 12-month period.
- <sup>(2)</sup> Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically. The HAP compounds that test below detection limits shall be assumed to be emitting at a rate equal to the detection limit.

*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 SV Flare**

### Associated Equipment

Associated Emission Unit ID Numbers: EUFLAREa, EUFLAREb

Emissions Control Equipment ID Number: None

Emissions Control Equipment Description: Flare

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Emission Unit vented through this Emission Point: EUFLAREa, EUFLAREb

Emission Unit Description: Ethanol Loadout Truck, Ethanol Loadout Rail

Raw Material/Fuel: Ethanol

Rated Capacity: 39,000 gal/hr (Truck), 144,000 gal/hr (Rail)

### **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-445-S6  
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)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-445-S6  
567 IAC 23.3(2) "a"

#### **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.*

The operating requirements and associated recordkeeping for this permit shall be:

- A. The total amount of ethanol loaded through the truck loading and rail loading shall not exceed 100.0 million gallons (on an undenatured basis) per 12-month rolling period.
- B. The owner or operator shall record the total amount of ethanol (in gallons, on an undenatured basis) loaded through the truck & rail loadout on a monthly basis, and calculate and record rolling twelve-month rolling totals.
- C. The total amount of E-85 loaded through the truck loading and rail loading shall not exceed

- 13.0 million gallons (as E-85) per 12-month rolling period.
- D. The owner or operator shall record the total amount of E-85 (in gallons, as E-85) loaded through the truck & rail loadout on a monthly basis, and calculate and record rolling twelve-month rolling totals.
- E. Truck loadouts may be switch-loaded (i.e. filled with denatured ethanol when the previous tank load was gasoline).
- F. The maximum amount of ethanol loaded through the rail loading shall not exceed 70 million gallons (on an undenatured basis) per 12-month rolling period. Rail loadouts are not required to be controlled by the flare.
- G. The owner or operator shall record the total amount of ethanol (in gallons, on an undenatured basis) loaded through the rail on a monthly basis, and calculate and record rolling twelve-month rolling totals.
- H. All rail loadouts shall be to dedicated tank cars (i.e. no switch loading).
- I. The truck loadout shall be vented to a flare, with the exception of 1.5 million gallons per 12-month rolling period which may be loaded without being controlled by the flare.
- J. The owner or operator shall record the total amount (in gallons) on a monthly basis loaded through the truck loadout without being vented to the flare, and calculate and record twelve month rolling totals.
- K. The flare shall meet the following requirements as specified in 40 CFR §60.18(b):
- Be designed for and operated with no visible emissions except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours;
  - Be operated with a flame present at all times product is being loaded;
  - 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.
- L. The flare shall be inspected and maintained according to the manufacturer's specifications.
- M. The owner or operator shall maintain records that the flare complies with the specifications and requirements in 40 CFR §60.18(b).
- N. The owner or operator shall keep records of control equipment inspections and repairs.
- O. The owner or operator shall follow the monitoring, notification, and recordkeeping standards as required in 40 CFR §63.11092 through §63.11095, as applicable

Authority for Requirement: DNR Construction Permit 05-A-445-S6

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 20

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 100

Exhaust Temperature (°F): 1500

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-445-S6

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

emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP SV22**

### Associated Equipment

Associated Emission Unit ID Numbers: EU26

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Emission Unit vented through this Emission Point: EU26

Emission Unit Description: Corn Oil Separation System: Skim Centrifuge, Oil Centrifuge, Defatted Emulsion Tank, Emulsion Tank and Defatted Syrup Tank

Raw Material/Fuel: Syrup

Rated Capacity: 140 gallons/minute

### **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 (VOCs)

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 18-A-456

#### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 34

Stack Opening, (inches, dia.): 3

Exhaust Flow Rate (scfm): Working and Breathing Losses

Exhaust Temperature (°F): 165

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 18-A-456

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: EP F001**

Associated Equipment

Associated Emission Unit ID Numbers: EUF001

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Emission Unit vented through this Emission Point: EUF001  
Emission Unit Description: Fugitive Emissions Grain Receiving  
Raw Material/Fuel: Grain  
Rated Capacity: 840 ton/hr

**Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 40%  
Authority for Requirement: 567 IAC 23.3(2) "a"

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.4(7)

**Operational Limits & Requirements**

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

Operational limits are not required at this time.

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP F002 (Plant-wide)**

### Associated Equipment

Associated Emission Unit ID Numbers: EUF002 (plant-wide)

Control Measure ID Number: CE CS31

Control Measure: Dust Suppression

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Emission Unit vented through this Emission Point: EUF002

Emission Unit Description: Fugitive Dust Plant Haul Roads

Raw Material/Fuel: Fugitive Dust

### **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): <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-446-S5  
567 IAC 23.3(2)"c"(1)

<sup>(1)</sup> The owner/operator shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond lot line of the property.

Pollutant: Particulate Matter (PM)

Emission Limit(s): 45.03 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 05-A-446-S5

<sup>(2)</sup> This is to be calculated based on tested silt content, number of trucks, (assuming trucks will be empty half of the miles traveled), and 0.8 miles per delivery or loadout, assuming 80% control. See Operating Limits & Requirements.

#### **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.*

The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall apply chemical dust suppressants at the rate and frequency required by the manufacturer's specifications to achieve a minimum of 80% fugitive dust control or when the silt content exceeds 7.2% during a surface silt content test. If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35.0 °F (1.70 °C), or conditions due to weather, in combination with the application of the chemical dust suppressant, could create hazardous driving conditions, then the chemical dust suppressant

application shall be postponed and applied as soon after the scheduled application date when the conditions preventing the application have been abated.

- B. The owner or operator shall keep records of dust suppressant application (date, location of suppressant application, and amount). In addition, owner or operator shall document all deviations from scheduled chemical suppressant application (include date, scheduled location of suppressant application, reasons for not applying suppressant). The owner or operator shall also keep a copy of the manufacturer's specifications for achieving 80% dust suppression available for inspection.
- C. Truck traffic on the haul roads shall not exceed 10 mph. The speed limit shall be posted on the haul road.
- D. Any spills on the road shall be cleaned up immediately.
- E. The owner or operator shall keep records of the number of trucks that unload/load material on a monthly basis.
- F. The owner or operator shall calculate and record the monthly fugitive dust emissions according to the following formula, which uses the equations from AP-42 Section 13.2.2, the PM empirical constants, and assumes a mean vehicle weight of 27.5 tons, 80% dust suppression, and an average of 0.8 miles per truck delivery or loadout.

$$E = 9.64 \times 10^{-4} \times V \times (s/12)^{0.7}$$

Where E = tons PM/month

V = number of trucks that month

s = surface silt content in % from that month's test results,  
(8% silt content would be s = 8)

- G. The owner or operator shall update monthly the twelve month rolling total of PM emissions by adding up the calculated monthly emissions for the previous twelve months. Immediately notify the DNR if the twelve month rolling total exceeds 45.03 tons.

Authority for Requirement: DNR Construction Permit 05-A-446-S5

### **Monitoring Requirements**

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

#### **Silt Testing:**

Pollutant – Silt

Silt Test to be Completed - Monthly

Test Method - AP-42, Appendix C.1 and Appendix C.2 <sup>(1)</sup>

Authority for Requirement - DNR Construction Permit 05-A-446-S5

- <sup>(1)</sup> The owner or operator shall test a representative road for surface silt content once per month, prior to the application of dust suppressant. After 12 tests, the company may request that the DNR review the results and determine if there is still a need for continued testing

*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 F003**

Associated Equipment

Associated Emission Unit ID Numbers: EUF003

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Emission Unit vented through this Emission Point: EUF003  
Emission Unit Description: Fugitive Emissions DDGS Loadout Fugitives  
Raw Material/Fuel: DDGS  
Rated Capacity: 160 ton/hr

**Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 40%  
Authority for Requirement: 567 IAC 23.3(2) "a"

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.4(7)

**Operational Limits & Requirements**

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

Operational limits are not required at this time.

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP F004 (Plant-wide)**

### Associated Equipment

Associated Emission Unit ID Numbers: EUF004

Emissions Control Equipment ID Number: None

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

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Emission Unit vented through this Emission Point: EUF004

Emission Unit Description: VOC Emissions from Equipment Leaks

Raw Material/Fuel: VOC Emissions

### **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: Single HAP

Emission Limit(s): 0.51 tons/yr

Authority for Requirement: DNR Construction Permit 05-A-444-S4

Pollutant: Total HAP

Emission Limit(s): 0.69 tons/yr

Authority for Requirement: DNR Construction Permit 05-A-444-S4

#### **NSPS Applicability**

This emission point is subject to the requirements/conditions of New Source Performance Standards (NSPS) Subpart VV- *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry* as specified in 40 CFR Part 60 §60.480.

However, the facility has chosen to comply with the provisions of NSPS Subpart VVa - *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006* (40 CFR Part 60 §60.480a) to satisfy the requirements of NSPS VV.

This emission point is also subject to the requirements/conditions of NSPS Subpart A-*General Provisions*.

Authority for Requirement: DNR Construction Permit 05-A-444-S4  
40 CFR 60 Subpart VVa  
567 IAC 23.1(2)"nn"

**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.*

The operating requirements and associated recordkeeping for this permit shall be:

- A. The component count shall be documented as to the number and types of components used. Components include but are not limited to valves, pumps, compressor seals, flanges, etc. The components shall be updated as the component count varies.
- B. The owner or operator shall calculate and record the HAPs emissions in tons based on the documented component count. The owner or operator shall update annualized HAP emission calculations as the component count varies. Emission factors shall be based on EPA document 453/R-95-017 entitled Protocol for Equipment Leak Emission Estimates
- C. The owner or operator shall follow the applicable standards of NSPS Subpart VVa, 40 CFR §60.480a through 40 CFR §60.489a.
- D. The owner or operator shall keep records as required in 40 CFR §60.486a, and reports as required in 40 CFR §60.487a
- E. The owner or operator shall follow the applicable standards of NESHAP Subpart BBBB, 40 CFR §63.11080 through §63.11100 when loading out “gasoline” as defined in 40 CFR §63.11100.
- F. The owner or operator shall follow the monitoring, notification, and recordkeeping standards as required in 40 CFR §63.11092 through §63.11095, as applicable.

Authority for Requirement: DNR Construction Permit 05-A-444-S4

**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 F005a**

Associated Equipment

Associated Emission Unit ID Numbers: EUF005  
Emissions Control Equipment ID Number: CE CS32  
Emissions Control Equipment Description: Mist Eliminator (Drift Loss 0.005%)

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Emission Unit vented through this Emission Point: EUF005  
Emission Unit Description: Cooling Tower  
Raw Material/Fuel: Water  
Rated Capacity: 26,000 gal/min (total for 3 cells)

**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-443-S2  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 0.98 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-443-S2

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.98 lb/hr; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 05-A-443-S2  
567 IAC 23.3(2)"a"

**Operational Limits & Requirements**

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

**Operating Limits**

- A. This cooling tower shall not use chromium based water treatment chemicals.
- B. The circulating water in the cooling tower shall not exceed 1,500 parts per million (ppm) total dissolved solids (TDS).

- C. The Mist Eliminator shall be designed to meet a control efficiency of 0.005% (gallons of drift per gallon of cooling water flow) or better.
- D. The owner or operator shall inspect the cooling tower at least once per calendar year.
- E. The owner or operator shall develop a written protocol of the cooling tower inspection and maintenance.

### **Reporting and Recordkeeping**

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

- A. The owner or operator shall maintain records on-site of the TDS concentration in the cooling tower circulating water. Records shall also be kept of the dates of measurement and the methods used to determine the concentration of the TDS in the cooling water.
- B. The owner or operator shall maintain records of all maintenance and repair to the cooling tower.
- C. The owner or operator shall maintain MSDS for all water treatment chemicals used at this cooling tower.

Authority for Requirement: DNR Construction Permit 05-A-443-S2

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 31

Stack Opening, (inches, dia.): 288 for each cell

Exhaust Flow Rate (scfm): 682,000 for each cell

Exhaust Temperature (°F): 98

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-443-S2

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

**Monitoring Requirements**

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

**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 F006**

Associated Equipment

Associated Emission Unit ID Numbers: EU F006

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Emission Unit vented through this Emission Point: EU F006

Emission Unit Description: Wetcake Production

Raw Material/Fuel: Wetcake

Rated Capacity: 85 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.*

No applicable emission limits at this time.

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)



#### **IV. General Conditions**

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

##### **G1. Duty to Comply**

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

##### **G2. Permit Expiration**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
  - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
  - b. Maintain a log at the permitted facility of the scenario under which it is operating.
  - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

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

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

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

**G13. Hazardous Release**

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

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

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

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

## 2. Excess Emissions Reporting

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

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

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

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.

v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

vi. The steps that were taken to limit the excess emission.

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

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

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

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

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

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

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

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

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

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

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

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

#### 1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that does any of the following:

- i. Correct typographical errors
- ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
- iii. Require more frequent monitoring or reporting by the permittee; or
- iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

#### 2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

- i. Do not violate any applicable requirement;
- ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
- iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
- iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
- v. Are not modifications under any provision of Title I of the Act; and
- vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;



- ii. The permittee's suggested draft permit;
  - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
  - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

### 3. Significant Title V Permit Modification.

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

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

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

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

#### **G20. Asbestos**

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

#### **G21. Open Burning**

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

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

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

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

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

has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

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

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

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

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

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

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

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

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

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

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

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

e. The department or the administrator determines that the permit must be revised or

revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

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

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

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

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

a. Such applicable requirements are included and are specifically identified in the permit;  
or

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

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

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

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

#### **G26. Severability**

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

#### **G27. Property Rights**

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

#### **G28. Transferability**

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

#### **G29. Disclaimer**

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

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

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

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

Stack Test Review Coordinator  
Iowa DNR, Air Quality Bureau  
Wallace State Office Building  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-9526

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

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

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

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

*567 IAC 26.1(1)*

### **G32. Contacts List**

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

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

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

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

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

#### **Field Office 1**

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**

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

#### **Field Office 6**

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

#### **Polk County Public Works Dept.**

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

#### **Linn County Public Health**

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

## V. Appendix

- A. 40 CFR 60 Subpart A – General Provisions  
<https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.a&rgn=div6>
- B. 40 CFR 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units  
[https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.d\\_0b&rgn=div6](https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.d_0b&rgn=div6)
- C. 40 CFR 60 Subpart DD – Standards of Performance for Grain Elevators  
<https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.dd&rgn=div6>
- D. 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  
[https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.k\\_0b&rgn=div6](https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.k_0b&rgn=div6)
- E. 40 CFR 60 Subpart VVa – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
[https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.vv\\_0a&rgn=div6](https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.vv_0a&rgn=div6)
- F. 40 CFR 63 Subpart A – General Provisions  
<https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.11.63.a&rgn=div6>
- G. 40 CFR 63 Subpart ZZZZ – National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines  
<https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.15.63.zzzz&rgn=div6>