

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

**Name of Permitted Facility: POET Biorefining – Hanlontown, LLC**  
**Facility Location: 3638 Fir Avenue, Hanlontown, IA 50444**  
**Air Quality Operating Permit Number: 21-TV-001**  
**Expiration Date: February 10, 2026**  
**Permit Renewal Application Deadline: August 10, 2025**

**EIQ Number: 92-6964**  
**Facility File Number: 98-07-004**

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**Responsible Official**

**Name: Benjamin Arentson**  
**Title: General Manager**  
**Mailing Address: 3638 Fir Avenue, Hanlontown, IA 50444**  
**Phone #: 641/896-6803**

**Permit Contact Person for the Facility**

**Name: Benjamin Arentson**  
**Title: General Manager**  
**Mailing Address: 3638 Fir Avenue, Hanlontown, IA 50444**  
**Phone #: 641/896-6803**

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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**



02/11/2021

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Marnie Stein, Supervisor of Air Operating Permits Section

Date

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## Abbreviations

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

### Pollutants

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

# I. Facility Description and Equipment List

Facility Name: POET Biorefining – Hanlontown, LLC

Permit Number: 21-TV-001

Facility Description: Ethanol Production Facility (SIC 2869)

## Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
SV1	EU1	3 – Grain Receiving Pits (Truck and Rail)	03-A-382-S8
	EU2	Elevator – Headhouse and Internal Handling	
	EU3	6 – Grain Bins	
SV2	EU4	Grain Scalper, Conveyor, Surge Bin	03-A-383-S3
SV4	EU6	6 - Batch Mash Fermenters	03-A-385-S10
		2 - Beer Wells	
		1 - Yeast Propagation Tanks	
	EU7	Distillation Process: Evaporators, Strippers, 4 - Sieves and Rectifier	
	EU32	Whole Stillage Tank	
SV7	EU11	DDGS Fluid Bed Cooler	03-A-388-S7
SV8	EU12	DDGS Silo	03-A-389-S3
SV9	EU13	DDGS Silo Bypass	03-A-390-S3
SV10	EU19	Diesel Generator	04-A-843-S2
SV11	TK001	190 Proof Ethanol Storage Tank	03-A-392
SV12	TK002	Denaturant Storage Tank	03-A-393
SV13	TK003	200 Proof Ethanol Storage Tank #1	03-A-394-S1
SV14	TK004	200 Proof Ethanol Storage Tank #1	03-A-395-S1
SV16	TK006	Denaturant Storage Tank	03-A-396-S1
SV17	EU28	Pneumatic Flour Conveyor/Receiver	03-A-397-S3
SV20	EU21	Boiler #1	04-A-024-S1
SV25	various	Fermentation/Distillation/Dryers	03-A-387-S16
SV26	EU29	Boiler #2	06-A-397
SV27	EU14-EU18	Centrifuges 1 – 5	15-A-563-S1
	EU31	Centrifuge 6	
SV29	EU5	Hammermill #1	19-A-036-S4
	EU22	Hammermill #2	
	EU23	Hammermill #3	
	EU27	Hammermill #4	
	EU33	Hammermill #5	
SV31	EU37	Corn Oil Separation	19-A-038
SV32	EU34	DDGS Loading	19-A-613
Flare	EU30	Ethanol Rail Loadout	04-A-025-S5

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>DNR Construction Permit Number</b>
	EU Truck Loadout	Ethanol Truck Loadout	
Cooling Tower	Cooling Tower	Cooling Tower	05-A-642-S2
F002	F002	Fugitive Dust Emissions from Truck Traffic	05-A-643-S4
F004	F004	Fugitive VOC Emissions from Equipment Leaks	05-A-644-S3
F005	F005	Wet Cake Production	NA
SV33	TK012	Gasoline Storage Tank	NA

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## Insignificant Activities Equipment List

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
F007	Railcar Venting Prior to Maintenance
TK007	Syrup Tank
TK008	Thin Stillage Tank
TK009	Distillate Tank
TK010	Corrosion Inhibitor Tank
TK011	Sulfuric Acid
TK013	Diesel Storage Tank
TK014	Diesel Storage Tank
TK015	Slurry Tank
TK016/TK017	Corn Oil System

## II. Plant-Wide Conditions

Facility Name: POET Biorefining – Hanlontown, LLC  
Permit Number: 21-TV-001

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: February 11, 2021  
Ending on: February 10, 2026

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**

Emission units at this facility are subject to *General Provisions*. The affected units are: EUs 1, 2, 3, 6, 7, 8, 9, 11, 14, 15, 16, 17, 18, 21, 29, 30, 31, 32, 37, TK001-TK004, TK006, F004 and Truck Loadout. See Appendix for a link to the Standard.

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

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

Emission units at this facility are subject to *Standards of Performance for Grain Elevators*. The affected units are: EUs 1, 2, 3. See Appendix A for a link to the Standard.

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

#### **40 CFR 60 Subpart Dc Requirements**

Emission units at this facility are subject to *Standards of Performance for Small Industrial Commercial Institutional Steam Generating Units*. The affected units are: EUs 21 and 29. See Appendix A for a link to the Standard.

Authority for Requirements: 40 CFR 60 Subpart Dc  
567 IAC 23.1(2)"III"



#### **40 CFR 60 Subpart Kb Requirements**

Emission units at this facility are subject to *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: EUs TK001 – TK004 and TK006. See Appendix A for a link to the Standard.

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

#### **40 CFR 60 Subpart VV Requirements**

Emission units at this facility are 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 November 7, 2006*. The affected units are: EUs 6, 7, 8, 9, 11, 14, 15, 16, 17, 18, 30, 31, 32, 37, F004 and Truck Loadout. Authority for Requirements: 40 CFR 60 Subpart VV

567 IAC 23.1(2)"nn"

Note the facility is electing to comply with NSPS VV by complying with NSPS VVa in accordance with 40 CFR 60.480(e)(2). See Appendix A for a link to the Standard.

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

Emission units at this facility are subject to National Emission Standards for Hazardous Air Pollutants for Source Categories – *General Provisions*. The affected units are: EUs 19 and TK012. See Appendix A for a link to the Standard.

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

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

Emission unit at this facility is subject to National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines. The affected unit is: EU19. See Appendix A for a link to the Standard.

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

#### **40 CFR 63 Subpart CCCCCC Requirements**

Emission units at this facility are subject to National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities. The affected unit is EU TK012. See Appendix A for a link to the Standard.

Authority for Requirements: 40 CFR 63 Subpart CCCCCC  
567 IAC 23.1(4)"ec"

### III. Emission Point-Specific Conditions

Facility Name: POET Biorefining – Hanlontown, LLC  
 Permit Number: **21-TV-001**

#### Emission Point ID Number: SV1

##### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU1	3 – Grain Receiving Pits (Truck and Rail)	Baghouse (CS1)	Grain	840 tons/hour	03-A-382-S8
EU2	Elevator – Headhouse and Internal Handling				
EU3	6 – Grain Bins			2,862,000 bushels/hour	

#### 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 %

Authority for Requirement: DNR Construction Permit 03-A-382-S8  
 40 CFR 60 Subpart DD  
 567 IAC 23.1(2)"ooo"

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

Emission Limit(s): 0.64 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-382-S8

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

Emission Limit(s): 0.64 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-382-S8

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.64 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-382-S8

Pollutant: Particulate Matter (PM) - Federal

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-382-S8  
 40 CFR 60 Subpart DD  
 567 IAC 23.1(2)"ooo"

### **NSPS Applicability**

This emission point vents units (EU1, EU2, and EU3) subject to New Source Performance Standards (NSPS) Subpart A – *General Provisions* and Subpart DD – *Standards of Performance for Grain Elevators* as specified in 40 CFR Part 60 §60.300.

Authority for Requirement: DNR Construction Permit 03-A-382-S8  
40 CFR 60 Subpart A  
567 IAC 23.1(2)  
40 CFR 60 Subpart DD  
567 IAC 23.1(2)"ooo"

### **Operating Requirements and Associated Recordkeeping**

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

- A. The maximum amount of grain received at the facility (Plant No. 98-07-004) shall not exceed 37.45 million bushels of grain per rolling 12-month period. The facility is limited to processing the following grains: corn, sorghum and wheat.
  - i. The owner or operator shall record on a monthly basis, the amount and type of grain received in bushels.
  - ii. The owner or operator shall monthly calculate and record the rolling 12-month total amount of grain received, in bushels.
- B. The facility is limited to receiving grain between the hours of 5 am to 9 pm.
  - i. The owner or operator shall daily record the hours grain is received for each calendar day grain is received.
- C. The owner or operator is required to lock-out aeration fan during the loading of Grain Bins (EU3) and shall continue to operate the system under negative pressure (venting emissions through the baghouse, CS1) for a minimum of 30 minutes after loading of Grain Bins (EU3) has been completed.
- D. The owner or operator shall conduct an inspection of the emission units and the associated control equipment at a minimum of once per year and correct/repair any issues discovered during the inspection. The owner or operator shall maintain a log of all inspections and maintenance activities performed on the emission units and the associated control equipment. This log shall include, but is not necessarily limited to:
  - i. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;
  - ii. Any issues identified during the inspection and the date each issue was resolved;
  - iii. Any issues addressed during the maintenance activities and the date each issue was resolved; and,
  - iv. Identification of the staff person performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 03-A-382-S8

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 117
- Stack Outlet Dimensions, (inches): 36
- Exhaust Flow Rate (scfm): 16,800
- Exhaust Temperature (°F): Ambient
- Discharge Style: Vertical Obstructed (Rain Cap)
- Authority for Requirement: DNR Construction Permit 03-A-382-S8

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

**Monitoring Requirements**

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

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.*

*Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: SV2

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU4	Grain Scalper	Baghouse (CS2)	Grain	140 tons/hour	03-A-383-S3
	Conveyor				
	Surge Bin				

### Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 03-A-383-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>2.5</sub>)

Emission Limit(s): 0.06 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-383-S3

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

Emission Limit(s): 0.06 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-383-S3

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.06 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-383-S3  
567 IAC 23.4(7)

#### Operating Requirements and Associated Recordkeeping

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

- A. The owner or operator shall conduct an inspection of the emission units and the associated control equipment at a minimum of once per year and correct/repair any issues discovered during the inspection. The owner or operator shall maintain a log of all inspections and maintenance activities performed on the emission units and the associated control equipment. This log shall include, but is not necessarily limited to:
  - i. The date and time any inspection and/or maintenance was performed on the

- emission unit and/or control equipment;
- ii. Any issues identified during the inspection and the date each issue was resolved;
- iii. Any issues addressed during the maintenance activities and the date each issue was resolved; and,
- iv. Identification of the staff person performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 03-A-383-S3

**Emission Point Characteristics**

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

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

Stack Outlet Dimensions, (inches): 12

Exhaust Flow Rate (scfm): 2,500

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 03-A-383-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

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

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

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

*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.*

*Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: SV4 (RTO Bypass Stack)**

Associated Equipment

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
EU6	6 – Batch Mash Fermenters	Scrubber (CS4)	Grain Mash	69,000 gallons/hour mash; 570,000 gallons (each)	03-A-385-S10
	2 – Beer Wells			685,000 gallons (each)	
	1 – Yeast Propagation Tanks			20,000 gallons	
EU7	Distillation Process: Evaporators, Strippers, 4 – Sieves and Rectifier		Beer	1,100 gallons/minute (beer feed rate)	
EU32	Whole Stillage Tank		Beer	44,000 gallons/hour (whole stillage)	

**Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 03-A-385-S10  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of “No Visible Emissions (NVE)” 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): 0.20 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-385-S10

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.20 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-385-S10  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 32.2 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-385-S10



Pollutant: Hazardous Air Pollutants, Single (SHAP)  
Emission Limit(s): 8.0 lb/hr  
Authority for Requirement: DNR Construction Permit 03-A-385-S10

Pollutant: Hazardous Air Pollutants, Total (THAP)  
Emission Limit(s): 8.06 lb/hr<sup>(2)</sup>  
Authority for Requirement: DNR Construction Permit 03-A-385-S10  
<sup>(2)</sup>Based on 500 hours per rolling 12-month period of RTO bypass.

### **Operating Requirements and Associated Recordkeeping**

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

- A. The scrubber (CE CS4) shall maintain an average pressure drop across the wet scrubber that is between 1 and 12 inches water column based on a 3-hour averaging period. The owner or operator shall establish an alarm setting for the purpose of initiating corrective action based on a pressure drop across the wet scrubber of less than 1 inch water column or a pressure drop across the wet scrubber of greater than 12 inches water column. This requirement shall not apply on the days that the scrubber is not in operation.
  - a. The owner or operator shall record the scrubber pressure drop in inches of water column on a continuous basis.
  - b. The owner or operator shall calculate and record the average pressure drop across the scrubber based on a 3-hour period. The average pressure drop shall be expressed and recorded as the average of all pressure drop data measured during each 3 hour period.
  - c. If the pressure drop deviates outside the range specified in Condition A, the owner or operator shall investigate the scrubber (CE CS4) and make corrections to the scrubber (CE CS4). The owner or operator shall maintain a record of all corrective actions taken.
- B. The scrubber (CE CS4) shall have a minimum scrubber liquid (water) flow rate equal to or greater than flow rate recorded during the most recent stack test that demonstrated compliance with the emission limits described under Applicable Requirements.
  - a. The owner or operator shall record the scrubber liquid (water) flow rate in gallons per minute on a continuous basis.
  - b. If the flow rate deviates below the minimum flow rate required then record the time, date and actions taken to correct the situation and when the flow rate is back above the minimum flow rate required.
- C. Any additive added to the scrubber liquid to enhance the efficiency of the scrubber shall be added at a rate greater than or equal to the rate recorded during the most recent performance test that demonstrated compliance with all applicable emission limits described under Applicable Requirements. The owner or operator shall continue to use the additive type that demonstrated compliance with all applicable emissions limits.
  - a. The owner or operator shall record the type of additive used to demonstrate compliance with the applicable emission limits described under Applicable Requirements.

- b. The owner or operator shall record the rate (in gallons/minute) of additive added (additive feed rate) to the scrubber liquid on a continuous basis.
  - c. If the additive feed rate deviates below the rate required (i.e., additive feed rate during most recent performance test that demonstrated compliance), then record the time, date and actions taken to correct the situation and also when the additive feed rate is greater than or equal to the required additive feed rate.
- D. The owner or operator shall maintain onsite a copy of the most recent performance test that demonstrated compliance with the emission limits described under Applicable Requirements along with the recorded scrubber (CE CS4) pressure drop, liquor flow rate, and liquid additive feed rate.
- E. The owner or operator may bypass the emissions normally vented through emission point EP SV25 through emission point EP SV4 for a maximum of 500 hours per twelve-month rolling period.
  - a. The owner or operator shall record monthly the number of hours that emissions bypass emission point EP SV25 and are released through emission point EP SV4.
  - b. The owner or operator shall monthly calculate and record the rolling 12-month total number of hours that emissions bypass emission point EP SV6 and are released through emission point EP SV4.
- F. The owner or operator shall operate and maintain the Scrubber (CE CS-4) according to the manufacturer specifications and maintenance schedule. The owner or operator shall conduct an inspection of the emission units and the associated control equipment at a minimum of once per year and correct/repair any issues discovered during the inspection. The facility shall maintain a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
  - a. The date and time any inspection and/or maintenance was performed on the control equipment;
  - b. Any issues identified during the inspection and the date each issue was resolved; and,
  - c. Any issues identified during the maintenance activities and the date each issue was resolved.

Authority for Requirement: DNR Construction Permit 03-A-385-S10

**Emission Point Characteristics**

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

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

Stack Outlet Dimensions, (inches): 24

Exhaust Flow Rate (scfm): 12,200

Exhaust Temperature (°F): 75

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 03-A-385-S10

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

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

**Monitoring Requirements**

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

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

Operating Requirements and Associated Recordkeeping contains Agency O & M plan equivalent monitoring.

**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: SV7

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU11	DDGS Fluid Bed Cooler	Baghouse (CS9)	DDGS	33.5 tons/hour	03-A-388-S7

### Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 03-A-388-S7  
567 IAC 23.3(2)"d"

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

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

Emission Limit(s): 0.78 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-388-S7

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.78 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-388-S7  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 6.0 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-388-S7

Pollutant: Hazardous Air Pollutants, Single (SHAP)

Emission Limit(s): 0.60 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-388-S7

Pollutant: Hazardous Air Pollutants, Total (THAP)

Emission Limit(s): 1.50 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-388-S7

**Operating Requirements and Associated Recordkeeping**

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

- A. The owner or operator shall conduct an inspection of the emission units and the associated control equipment at a minimum of once per year and correct/repair any issues discovered during the inspection. The owner or operator shall maintain a log of all inspections and maintenance activities performed on the emission units and the associated control equipment. This log shall include, but is not necessarily limited to:
  - i. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;
  - ii. Any issues identified during the inspection and the date each issue was resolved;
  - iii. Any issues addressed during the maintenance activities and the date each issue was resolved; and,
  - iv. Identification of the staff person performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 03-A-388-S7

**Emission Point Characteristics**

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

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

Stack Outlet Dimensions, (inches): 36

Exhaust Flow Rate (scfm): 14,900

Exhaust Temperature (°F): 100

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 03-A-388-S7

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

**Monitoring Requirements**

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

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

See Appendix B for the Baghouse O&M Plan (CS9)

**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: SV8

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU12	DDGS Silo	Baghouse (CS10)	DDGS	33.5 tons/hour	03-A-389-S3

### Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 03-A-389-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>2.5</sub>)

Emission Limit(s): 0.10 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-389-S3

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

Emission Limit(s): 0.10 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-389-S3

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.10 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-389-S3  
567 IAC 23.4(7)

#### Operating Requirements and Associated Recordkeeping

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

- A. The owner or operator shall conduct an inspection of the emission units and the associated control equipment at a minimum of once per year and correct/repair any issues discovered during the inspection. The owner or operator shall maintain a log of all inspections and maintenance activities performed on the emission units and the associated control equipment. This log shall include, but is not necessarily limited to:
  - i. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;

- ii. Any issues identified during the inspection and the date each issue was resolved;
- iii. Any issues addressed during the maintenance activities and the date each issue was resolved; and,
- iv. Identification of the staff person performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 03-A-389-S3

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 120  
 Stack Outlet Dimensions, (inches): 13 X 17  
 Exhaust Flow Rate (scfm): 4,000  
 Exhaust Temperature (°F): Ambient  
 Discharge Style: Horizontal  
 Authority for Requirement: DNR Construction Permit 03-A-389-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

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

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

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

*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.*

*Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.*

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: SV9

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU13	DDGS Silo Bypass	Baghouse (CS11)	DDGS	33.5 tons/hour	03-A-390-S3

### Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 03-A-390-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): 0.10 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-390-S3

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.10 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-390-S3  
567 IAC 23.4(7)

#### **Operating Requirements and Associated Recordkeeping**

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

- A. The owner or operator shall conduct an inspection of the emission units and the associated control equipment at a minimum of once per year and correct/repair any issues discovered during the inspection. The owner or operator shall maintain a log of all inspections and maintenance activities performed on the emission units and the associated control equipment. This log shall include, but is not necessarily limited to:
- The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;
  - Any issues identified during the inspection and the date each issue was resolved;
  - Any issues addressed during the maintenance activities and the date each issue was resolved; and,
  - Identification of the staff person performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 03-A-390-S3



**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 83  
Stack Outlet Dimensions, (inches): 12  
Exhaust Flow Rate (scfm): 4,000  
Exhaust Temperature (°F): Ambient  
Discharge Style: Horizontal  
Authority for Requirement: DNR Construction Permit 03-A-390-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

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

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

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

*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.*

*Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.*

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: SV10

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU19	Diesel Generator	Diesel Oxidation Catalyst (CS24)	Diesel	1000 kW	04-A-843-S2

### 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 04-A-843-S2

<sup>(1)</sup>An exceedance of the indicator opacity of "10%" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

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

Emission Limit(s): 0.94 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-843-S2

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.94 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-843-S2

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

Emission Limit(s): 5.36 lb/hr; 2.5 lb/MMBtu

Authority for Requirement: DNR Construction Permit 04-A-843-S2  
567 IAC 23.3(3)

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

Emission Limit(s): 37.84 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-843-S2

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.92 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-843-S2

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 7.37 lb/hr, 70% reduction or 23 ppmvd @ 15% O<sub>2</sub>

Authority for Requirement: DNR Construction Permit 04-A-843-S2  
40 CFR 63 Subpart ZZZZ  
567 IAC 23.1(4)"cz"

### **NESHAP Applicability**

This emission point is subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart A – *General Provisions* and Subpart ZZZZ – *Stationary Reciprocating Internal Combustion Engines* as specified in 40 CFR Part 63 §63.6580 - §63.6675.

Authority for Requirement: DNR Construction Permit 04-A-843-S2  
40 CFR 63 Subpart A  
567 IAC 23.1 (4)  
40 CFR 63 Subpart ZZZZ  
567 IAC 23.1(4)"cz"

### **Operating Requirements and Associated Recordkeeping**

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

- A. This engine is limited to operating a maximum of 1000 hours in any rolling 12-month period.
- B. The owner or operator shall maintain the following monthly records:
  - i the total number of hours that the engine operated; and
  - ii. the rolling 12-month total amount of the number of hours that the engine operated.
- C. For non-emergency situations, this engine is limited to operating between the hours of 7 AM to 10 PM during any calendar day.
  - i. For each calendar day the engine is operated, the owner or operator shall record the hours the engine is operated.
- D. In accordance with 40 CFR§63.6604(a), this engine is limited to burning diesel fuel oil that must meet the following specifications from 40 CFR 80.510(b) for nonroad diesel fuel:
  - i. a maximum sulfur content of 15 ppm (0.0015%) by weight; and
  - ii. a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.
- E. The owner or operator of the engine shall comply with the requirements of Condition D by one of the following methods:
  - i. have the fuel supplier certify that the fuel delivered meets the definition of non-road diesel fuel as defined in 40 CFR §80.510(b);
  - ii. obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
  - iii. perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.
- F. If the engine is not equipped with a closed crankcase ventilation system, the owner or operator must install a crankcase filter that meets the requirements of 40 CFR §63.6625(g).
- G. The owner or operator must operate and maintain a continuous temperature monitoring device on the inlet of the catalytic oxidizer that meets the requirements of 40 CFR §63.6625(b). The owner or operator shall maintain the temperature of the stationary

RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F, based on a 4-hour rolling average.

- H. The owner or operator shall maintain the following records:
  - i. A record of the inlet temperature to the catalyst. The data shall be reduced to 4-hour rolling averages.
  - ii. A record of the pressure drop across the catalyst. The pressure drop shall be recorded at least once per month.
- I. The owner or operator must operate and maintain a pressure drop monitoring device across the catalytic oxidizer. The owner or operator shall maintain the catalyst so that pressure drop across it does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial compliance test.
- J. The owner or operator shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitation for CO apply.
- K. The owner or operator shall submit semiannual compliance reports that shall cover the periods from January 1 to June 30 and from July 1 to December 31 of each year.<sup>(1)</sup> The reports shall be submitted by July 31 or January 31, whichever is the first date after the end of the reporting period. The report shall contain the following information:
  - i. Company name and address;
  - ii. Statement by the responsible official, with that official's name, title and signature, certifying the accuracy and the content of the report;
  - iii. Date of the report and the beginning and ending dates of the reporting periods;
  - iv. A brief description of any:
    - a. Malfunctions that may have caused any applicable emission limit to be exceeded. This shall include the date and duration of the malfunction and a description of what actions were taken during the malfunction to minimize emissions and to correct the malfunction;
    - b. Deviations from any emission or operating limitations. This shall include the date and duration of the deviation and a description of what actions were taken to correct the deviation.
    - c. Periods of time during which the continuous monitoring system was not operating.
  - v. If there were no malfunctions or deviations from the emission or operating limitations during the reporting period, a statement to that effect.

<sup>(1)</sup> If the engine is operated as a limited use engine, the report can be submitted annually by no later than January 31 of each year.

Authority for Requirement: DNR Construction Permit 04-A-843-S2

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 18  
Stack Outlet Dimensions, (inches): 8  
Exhaust Flow Rate (scfm): 7,600  
Exhaust Temperature (°F): 800  
Discharge Style: Vertical unobstructed  
Authority for Requirement: DNR Construction Permit 04-A-843-S2

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: SV11, SV12, SV13, SV14, SV16**

Associated Equipment

<b>Emission Point</b>	<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
SV11	TK001	190 Proof Ethanol Storage Tank	Internal Floating Roof	Ethanol	180,000 gallons	03-A-392
SV12	TK002	Denaturant Storage Tank	Internal Floating Roof	Denaturant	180,000 gallons	03-A-393
SV13	TK003	200 Proof Ethanol Tank #1	Internal Floating Roof	Denatured Ethanol	2,000,000 gallons	03-A-394-S1
SV14	TK004	200 Proof Ethanol Tank #2	Internal Floating Roof	Denatured Ethanol	2,000,000 gallons	03-A-395-S1
SV16	TK006	Denaturant Storage Tank	Internal Floating Roof	Denaturant	180,000 gallons	03-A-396-S1

**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.*

No emission limits at this time.

**NSPS Applicability**

These emission points are subject to New Source Performance Standards (NSPS) Subpart A – *General Provisions* and 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.*

Authority for Requirement: DNR Construction Permit 03-A-392, 03-A-393, 03-A-394-S1, 03-A-395-S1, 03-A-396-S1  
 40 CFR 60 Subpart A  
 567 IAC 23.1(2)  
 40 CFR 60 Subpart Kb  
 567 IAC 23.1(2)"ddd"

**Operating Requirements and Associated Recordkeeping**

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

**Operating Limits:**

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

**Operating Condition Monitoring:**

- A. The owner or operator keep readily accessible records showing the dimension of the

storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.

- B. The owner or operator shall keep records as required in 40 CFR 60.115b(a) and 40 CFR 60.116b.

Authority for Requirement: DNR Construction Permit 03-A-392, 03-A-393, 03-A-394-S1, 03-A-395-S1, 03-A-396-S1

**Emission Point Characteristics**

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

EP	Stack Height, (ft. from the ground)	Stack Opening, (inches, dia.)	Exhaust Flow Rate (acfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
SV11	35	10	NA - Vent	Ambient	Downward	03-A-392
SV12	35	10	NA - Vent	Ambient	Downward	03-A-393
SV13	49	10	NA - Vent	Ambient	Downward	03-A-394-S1
SV14	49	10	NA - Vent	Ambient	Downward	03-A-395-S1
SV16	35	10	NA - Vent	Ambient	Downward	03-A-396-S1

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: SV17

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU28	Pneumatic Flour Conveyor/Receiver	Baghouse (CS17)	Grain	140 tons flour/hour	03-A-397-S3

### Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 03-A-397-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>2.5</sub>)

Emission Limit(s): 0.15 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-397-S3

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

Emission Limit(s): 0.15 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-397-S3

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.15 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-397-S3  
567 IAC 23.4(7)

#### Operating Requirements and Associated Recordkeeping

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

- A. The owner or operator shall conduct an inspection of the emission units and the associated control equipment at a minimum of once per year and correct/repair any issues discovered during the inspection. The owner or operator shall maintain a log of all inspections and maintenance activities performed on the emission units and the associated control equipment. This log shall include, but is not necessarily limited to:
  - i. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;



- ii. Any issues identified during the inspection and the date each issue was resolved;
- iii. Any issues addressed during the maintenance activities and the date each issue was resolved; and,
- iv. Identification of the staff person performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 03-A-397-S3

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 65

Stack Outlet Dimensions, (inches): 12

Exhaust Flow Rate (scfm): 6,005

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 03-A-397-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

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

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

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

*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.*

*Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.*

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: SV20

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU21	Boiler #1	Low NO <sub>x</sub> Burners	Natural Gas	100.0 MMBtu/hr	04-A-024-S1

### 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 04-A-024-S1  
567 IAC 23.3(2)"d"

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

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

Emission Limit(s): 0.75 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-024-S1

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.75 lb/hr, 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 04-A-024-S1  
567 IAC 23.3(2)"b"(3)

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

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

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

Emission Limit(s): 4.0 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-024-S1

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.54 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-024-S1

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 1.6 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-024-S1

**NSPS Applicability**

This emission unit is subject to New Source Performance Standards (NSPS) Subpart A – *General Provisions* and Dc - *Standards of Performance for Small Industrial, Commercial, Institutional Steam Generating Units*.

Authority for Requirement: DNR Construction Permit 04-A-024-S1  
40 CFR 60 Subpart A  
567 IAC 23.1(2)  
40 CFR 60 Subpart Dc  
567 IAC 23.1(2)"III"

**Operating Requirements and Associated Recordkeeping**

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

A. The owner or operator shall keep records of the amount of fuel combusted each day.

Authority for Requirement: DNR Construction Permit 04-A-024-S1

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 75  
Stack Opening, (inches, dia.): 48  
Exhaust Flow Rate (dscfm): 15,650  
Exhaust Temperature (°F): 310  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 04-A-024-S1

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: SV25

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity
<b>Fermentation Process</b>				
EU6	6 – Batch Mash Fermenters	Wet Scrubber (CS4); Regenerative Thermal Oxidizer (CS22) 30 MMBtu/hour	Grain Mash	570,000 gallons, each
	2 – Beer Wells			685,000 gallons, each
	1 – Yeast Propagation Tanks			20,000 gallons
<b>Distillation Process and Whole Stillage Storage</b>				
EU7	Evaporator	Wet Scrubber (CS4); Regenerative Thermal Oxidizer (CS22) 30 MMBtu/hour	Beer	1,100 gallons/minute (total feed rate)
	2 – Strippers			
	4 – Sieves			
	Rectifier			
EU32	Whole Stillage Tank		Whole Stillage	44,000 gallons/hour
<b>Centrifuges</b>				
EU14	Centrifuge #1	Regenerative Thermal Oxidizer (CS22) 30 MMBtu/hour	Whole Stillage	50 tons/hour, each
EU15	Centrifuge #2			
EU16	Centrifuge #3			
EU17	Centrifuge #4			
EU18	Centrifuge #5			
EU31	Centrifuge #6			70 tons/hour
<b>DDGS Dryers and Cooler</b>				
EU8	DDGS Dryer #1	Multiclone #1 (CS6); Regenerative Thermal Oxidizer (CS22) 30 MMBtu/hour	DDGS	55 MMBtu/hour; 33.5 tons/hour
EU9	DDGS Dryer #2	Multiclone #2 (CS7); Regenerative Thermal Oxidizer (CS22) 30 MMBtu/hour		55 MMBtu/hour; 33.5 tons/hour
EU11	DDGS Fluid Bed Cooler	Multiclone #1 & #2 (CS6, CS7); Regenerative Thermal Oxidizer (CS22) 30 MMBtu/hour via DDGS Dryers #1 & #2		33.5 tons/hour
<b>Corn Oil Separation</b>				
EU37	Corn Oil Separation	Regenerative Thermal Oxidizer (CS22) 30 MMBtu/hour	Syrup	200 gallons/minute

Authority for Requirement: DNR Construction Permit 03-A-387-S16

## **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.*

#### **During Normal Operation of SV25**

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 03-A-387-S16  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "10%" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

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

Emission Limit(s): 22.0 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-387-S16

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

Emission Limit(s): 22.0 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-387-S16

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 22.0 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-387-S16  
567 IAC 23.4(7)

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

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 03-A-387-S16  
567 IAC 23.3(3)"e"

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

Emission Limit(s): 11.24 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-387-S16

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 15.0 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-387-S16

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 11.0 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-387-S16

Pollutant: Hazardous Air Pollutants, Single (SHAP)  
Emission Limit(s): 0.60 lb/hr  
Authority for Requirement: DNR Construction Permit 03-A-387-S16

Pollutant: Hazardous Air Pollutants, Total (THAP)  
Emission Limit(s): 1.24 lb/hr  
Authority for Requirement: DNR Construction Permit 03-A-387-S16

**During By-Pass Operation of Wet Scrubber, CS4**

Pollutant: Opacity  
Emission Limit(s): 40 % <sup>(2)</sup>  
Authority for Requirement: DNR Construction Permit 03-A-387-S16  
567 IAC 23.3(2)"d"

<sup>(2)</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) - State  
Emission Limit(s): 22.0 lb/hr, 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 03-A-387-S16  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 500 ppmv  
Authority for Requirement: DNR Construction Permit 03-A-387-S16  
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 11.24 lb/hr  
Authority for Requirement: DNR Construction Permit 03-A-387-S16

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 36.0 lb/hr  
Authority for Requirement: DNR Construction Permit 03-A-387-S16

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 23.0 lb/hr  
Authority for Requirement: DNR Construction Permit 03-A-387-S16

Pollutant: Hazardous Air Pollutants, Single (SHAP)  
Emission Limit(s): 0.89 lb/hr  
Authority for Requirement: DNR Construction Permit 03-A-387-S16

Pollutant: Hazardous Air Pollutants, Total (THAP)  
Emission Limit(s): 3.56 lb/hr  
Authority for Requirement: DNR Construction Permit 03-A-387-S16

### **Operating Requirements and Associated Recordkeeping**

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

#### **Regenerative Thermal Oxidizer, CS22, Operation Requirements**

- A. The owner or operator shall operate the dryers and regenerative thermal oxidizer (CE-CS22) combusting natural gas and/or process off-gases only.
  - a. The owner or operator shall maintain records of fuels fired in Dryer #1 (EU-8), Dryer #2 (EU-9) and the Regenerative Thermal Oxidizer (CE-CS22).
- B. The owner or operator shall operate the regenerative thermal oxidizer (CE-CS22) at all times that the emission units are operating except for bypass periods.
  - a. The owner or operator shall keep records of the frequency and amount of time the regenerative thermal oxidizer (CE-CS22) malfunctions during drying operations, and estimate the emissions emitted during said malfunctions.
- C. The owner or operator shall maintain a 3-hour average operating temperature of the Regenerative Thermal Oxidizer (RTO) at no less than 50 degrees Fahrenheit below the average operating temperature recorded for the RTO during the most recent performance test that demonstrated compliance with the emission limits as specified under Applicable Requirements for Normal and By-Pass Operations.
  - a. The owner or operator shall keep hourly records of the operating temperature (degrees Fahrenheit) of the Regenerative Thermal Oxidizer (CE-CS22) and record all three-hour periods (during actual operations) of the average operating temperature of the Regenerative Thermal Oxidizer (CE-CS22).

#### **Wet Scrubber, CS4, Operation Requirements**

- A. The scrubber (CE-CS4) shall maintain an average pressure drop across the wet scrubber that is between 1 and 12 inches water column based on a 3-hour averaging period. The owner or operator shall establish an alarm setting for the purpose of initiating corrective action based on a pressure drop across the wet scrubber of less than 1 inch water column or a pressure drop across the wet scrubber of greater than 12 inches water column. This requirement shall not apply on the days that the scrubber is not in operation.
  - a. The owner or operator shall record the scrubber pressure drop in inches of water column on a continuous basis.
  - b. The owner or operator shall calculate and record the average pressure drop across the scrubber based on a 3-hour period. The average pressure drop shall be expressed and recorded as the average of all pressure drop data measured during each 3 hour period.
  - c. If the pressure drop deviates outside the range specified in Condition A, the owner or operator shall investigate the scrubber (CE-CS4) and make corrections to the scrubber (CE-CS4). The owner or operator shall maintain a record of all corrective actions taken.
- B. The scrubber (CE-CS4) shall have a minimum scrubber liquid (water) flow rate equal to or greater than flow rate recorded during the most recent stack test that demonstrated compliance with the emission limits as specified under Applicable Requirements.
  - a. The owner or operator shall record the scrubber liquid (water) flow rate in gallons



- per minute on a continuous basis.
  - b. If the flow rate deviates below the minimum flow rate required then record the time, date and actions taken to correct the situation and when the flow rate is back above the minimum flow rate required.
- C. Any additive added to the scrubber liquid to enhance the efficiency of the scrubber shall be added at a rate greater than or equal to the rate recorded during the most recent performance test that demonstrated compliance with all applicable emission limits as specified under Applicable Requirements. The owner or operator shall continue to use the additive type that demonstrated compliance with all applicable emissions limits as specified under Applicable Requirements.
- a. The owner or operator shall record the type of additive used to demonstrate compliance with the applicable emission limits as specified under Applicable Requirements.
  - b. The owner or operator shall record the rate (in gallons/minute) of additive added (additive feed rate) to the scrubber liquid on a continuous basis.
  - c. If the additive feed rate deviates below the rate required (i.e., additive feed rate during most recent performance test that demonstrated compliance), then record the time, date and actions taken to correct the situation and also when the additive feed rate is greater than or equal to the required additive feed rate.
- D. The owner or operator may bypass the scrubber (CE-CS4) and vent emissions directly through the RTO (CE-CS22) for a maximum of 100 hours per twelve-month rolling period.
- a. The owner or operator shall record monthly the number of hours that emissions bypass the scrubber (CE CS-4) and vent emissions directly through the RTO (CE-CS22).
  - b. The owner or operator shall calculate and record the rolling 12-month total number of hours that emissions bypass the scrubber (CE-CS4) and vent emissions directly through the RTO (CE-CS22).

### **Control Equipment Requirements**

- A. The owner or operator shall operate and maintain the Scrubber (CE-CS4), Multi-Cyclone (CE-CS6), Multi-Cyclone (CE-CS7), and Regenerative Thermal Oxidizer (CE-CS22) according to the manufacturer specifications and maintenance schedule. The facility shall maintain a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
- a. The date and time any inspection and/or maintenance was performed on the emission units and/or control equipment;
  - b. Any issues identified during the inspection and the date each issue was resolved; and,
  - c. Any issues identified during the maintenance activities and the date each issue was resolved.
- B. The owner or operator shall maintain onsite a copy of the most recent performance test(s) that demonstrated compliance with the emission limits for Normal and By-Pass Operations along with the recorded RTO (CE-CS22) operating temperature and the recorded scrubber (CE-CS4) pressure drop, liquor flow rate, and liquid additive feed rate.

Authority for Requirement: DNR Construction Permit 03-A-387-S16

### **Emission Point Characteristics**

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

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

Stack Outlet Dimensions, (inches): 76

Exhaust Flow Rate (scfm): 84,000

Exhaust Temperature (°F): 320

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-387-S16

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

### **Monitoring Requirements**

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

#### **Compliance Demonstration #1 for Emission Point SV25 - During Normal Operation**

**Compliance Demonstration Table #1**

<b>Pollutant</b>	<b>Compliance Methodology</b>	<b>Frequency</b>	<b>Test Run Time</b>	<b>Test Method</b>
PM – State <sup>(1)</sup>	Stack Testing	3 years <sup>(2)</sup>	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
NO <sub>x</sub> <sup>(1)</sup>	Stack Testing	3 years <sup>(2)</sup>	1 hour	40 CFR 60, Appendix A, Method 7E
VOC <sup>(1)(3)</sup>	Stack Testing	3 years <sup>(2)</sup>	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
CO <sup>(1)</sup>	Stack Testing	3 years <sup>(2)</sup>	1 hour	40 CFR 60, Appendix A, Method 10
HAP <sup>(1)(3)(4)</sup>	Stack Testing	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> The next stack test shall be completed no later than August of 2021.

<sup>(2)</sup> Performance testing shall be conducted once every three years with a minimum of one year between tests. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits with all equipment operating under normal conditions (not during scrubber bypass). Testing shall be completed during the months of June, July, or August. The stack tests for NO<sub>x</sub> and CO shall be conducted simultaneously.

<sup>(3)</sup> Additional stack testing under normal operating conditions (not during scrubber bypass) will be triggered after each of the following:

- After the facility processes, by weight, more than 30% sorghum in the hammermills, based on a 3-hr average.
- After the facility processes, by weight, more than 10% wheat in the hammermills, based on a 3-hr average.

<sup>(4)</sup> Acrolein, acetaldehyde, formaldehyde, and methanol shall be tested for specifically. HAP compounds that test below the detection limits shall be assumed to be emitted at a rate equal to the detection limit.

**Compliance Demonstration #2 for Emission Point SV25 - During By-Pass Operation of Wet Scrubber CS4**

**Compliance Demonstration Table #2**

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

<sup>(1)</sup> Performance testing shall be required under scrubber bypass conditions should the facility exceed 90 hours of operation with the scrubber bypassed in any twelve-month rolling period. The test shall be conducted within twelve months after the facility has exceeded the 90 hours of scrubber bypass operation. The facility is allowed to conduct performance testing prior to exceeding 90 hours with the scrubber bypassed in any twelve-month rolling period to demonstrate compliance with testing requirements.

<sup>(2)</sup> Acrolein, acetaldehyde, formaldehyde, and methanol shall be tested for specifically. HAP compounds that test below the detection limits shall be assumed to be emitted at a rate equal to the detection limit.

Authority for Requirement: DNR Construction Permit 03-A-387-S16

**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: SV26

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU29	Boiler #2	Low NO <sub>x</sub> Burners	Natural Gas	100.0 MMBtu/hr	06-A-397

### Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 06-A-397  
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): 0.75 lb/hr, 0.030 lb/MMBtu

Authority for Requirement: DNR Construction Permit 06-A-397  
40 CFR 60 Subpart Dc  
567 IAC 23.1(2)"III"

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

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

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

Emission Limit(s): 4.0 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-397

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.54 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-397

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 4.0 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-397

### **NSPS Applicability**

This emission unit is subject to New Source Performance Standards (NSPS) Subpart A – *General Provisions* and Dc - *Standards of Performance for Small Industrial, Commercial, Institutional Steam Generating Units*.

Authority for Requirement: DNR Construction Permit 06-A-397  
40 CFR 60 Subpart A  
567 IAC 23.1(2)  
40 CFR 60 Subpart Dc  
567 IAC 23.1(2)"III"

### **Operating Requirements and Associated Recordkeeping**

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

#### Operating Limits:

- A. Victory Energy Boiler #2 (EU29) is limited to firing on natural gas fuel only.

#### Operating Condition Monitoring:

- A. As specified in 40 CFR Part 60 §60.48c(g), the owner or operator of Victory Energy Boiler #2 (EU29) shall record and maintain records of the fuels combusted during each calendar month.
- B. As specified in 40 CFR Part 60.48c(f), the owner or operator of Victory Energy Boiler #2 (EU29) shall retain fuel supplier certification of the sulfur content of fuels fired in Boiler #2 (SV26).

Authority for Requirement: DNR Construction Permit 06-A-397

### **Emission Point Characteristics**

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

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

Stack Opening, (inches, dia.): 48

Exhaust Flow Rate (acfm): 27,900

Exhaust Temperature (°F): 400

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-397

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: SV27

### Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU14 – EU18	Centrifuge 1 – 5	Whole Stillage	50 tons/hour/centrifuge	15-A-563-S1
EU31	Centrifuge 6		70 tons/hour	

### 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.*

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 5.22 lb/hr, 1.30 tons/yr <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 15-A-563-S1

<sup>(1)</sup>Based on 500 hours per rolling 12-month period of RTO bypass.

Pollutant: Hazardous Air Pollutants, Single (SHAP)

Emission Limit(s): 0.44 lb/hr, 0.11 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 15-A-563-S1

<sup>(2)</sup>Based on 500 hours per rolling 12-month period of RTO bypass.

Pollutant: Hazardous Air Pollutants, Total (THAP)

Emission Limit(s): 0.48 lb/hr, 0.12 tons/yr <sup>(3)</sup>

Authority for Requirement: DNR Construction Permit 15-A-563-S1

<sup>(3)</sup>Based on 500 hours per rolling 12-month period of RTO bypass.

#### Operating Requirements and Associated Recordkeeping

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

- A. The centrifuges (EU14, EU15, EU16, EU17, EU18, and EU31) may bypass the thermal oxidizer (CS22) a maximum of 500 hours per twelve month rolling period:
  - i. The owner or operator shall keep a record of the number of hours the emission units are operated without being controlled by the thermal oxidizer (CS22) and update the twelve month rolling total on a monthly basis.

Authority for Requirement: DNR Construction Permit 15-A-563-S1

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 36.5
- Stack Outlet Dimensions, (inches): 10
- Exhaust Flow Rate (scfm): 4,200
- Exhaust Temperature (°F): 200
- Discharge Style: Horizontal
- Authority for Requirement: DNR Construction Permit 15-A-563-S1

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)



**Emission Point ID Number: SV29**

Associated Equipment

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
EU5	Hammermill #1	Baghouse (CS3)	Grain	24 tons/hour, each	19-A-036-S4
EU22	Hammermill #2	Baghouse (CS19)			
EU23	Hammermill #3	Baghouse (CS20)			
EU27	Hammermill #4	Baghouse (CS21)			
EU33	Hammermill #5	Baghouse (CS23)			

**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.*

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 19-A-036-S4  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "No Visible Emissions (NVE)" 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>2.5</sub>)

Emission Limit(s): 1.54 lb/hr

Authority for Requirement: DNR Construction Permit 19-A-036-S4

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

Emission Limit(s): 1.54 lb/hr

Authority for Requirement: DNR Construction Permit 19-A-036-S4

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 1.54 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 19-A-036-S4  
567 IAC 23.4(7)

**Operating Requirements and Associated Recordkeeping**

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

- A. The owner or operator shall not exceed a combined grind rate of 120 tons/hr for Hammermills (EU5, EU22, EU23, EU27, and EU33). Each day the owner or operator shall perform the following:
  - a. Record the total corn ground in lbs by the bulk weigher.

- b. Record the number of hours the bulk weigher operated.
- c. Calculate and record the combined grind rate for Hammermills (EU5, EU22, EU23, EU27, and EU33) by using the following formula:

Total daily corn ground (weighed in lbs. by bulk weigher) / (number of hours the bulk weigher operated x 2000 lbs) = ton/hr

- B. POET Biorefining – Hanlontown (Facility ID: 98-07-004) is required to perform stack testing on the RTO (SV25) if the grain processed by the hammermills exceeds, by weight, 30% sorghum or 10% wheat, based on a 3-hour average. The facility shall complete a stack test on the RTO (SV25) within 90 days after exceeding the grain content percentage, by weight.
  - a. The owner or operator shall keep records of the amount of each type of grain processed in the hammermills on a daily basis, and calculate the 3-hr average weight percentage of sorghum and wheat. If the hammermills process more than 30% sorghum (by weight) or more than 10% wheat (by weight), the facility shall notify the DNR within five (5) working days.
- C. The owner or operator shall conduct an inspection of the emission units and the associated control equipment at a minimum of once per year and correct/repair any issues discovered during the inspection. The owner or operator shall maintain a log of all inspections and maintenance activities performed on the emission units and the associated control equipment. This log shall include, but is not necessarily limited to:
  - a. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;
  - b. Any issues identified during the inspection and the date each issue was resolved;
  - c. Any issues addressed during the maintenance activities and the date each issue was resolved; and,
  - d. Identification of the staff person performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 19-A-036-S4

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 90  
Stack Outlet Dimensions, (inches): 56  
Exhaust Flow Rate (scfm): 43,800  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical unobstructed  
Authority for Requirement: DNR Construction Permit 19-A-036-S4

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No   
See Appendix B for the Baghouse O&M Plan (CS3, CS19, CS20, CS21 and CS23.)

**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: SV31

### Associated Equipment

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
EU37	Corn Oil Separation	Syrup	200 gallon/minute	19-A-038

### 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): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 19-A-038

#### Operating Requirements and Associated Recordkeeping

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

There are no operating requirements at this time.

Authority for Requirement: DNR Construction Permit 19-A-038

#### Emission Point Characteristics

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

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

Stack Outlet Dimensions, (inches): 3

Exhaust Flow Rate (scfm): Working and Breathing Losses

Exhaust Temperature (°F): 165

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 19-A-038

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: SV32

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU34	DDGS Loading	Baghouse (CS30)	DDGS	160 tons/hour	19-A-613

### 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 19-A-613  
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>2.5</sub>)

Emission Limit(s): 0.21 lb/hr

Authority for Requirement: DNR Construction Permit 19-A-613

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

Emission Limit(s): 0.21 lb/hr

Authority for Requirement: DNR Construction Permit 19-A-613

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.21 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 19-A-613  
567 IAC 23.3(2)"a"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 1.07 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 19-A-613

<sup>(2)</sup> Based on a maximum DDGS production rate of 33.5 tons/hour.

Pollutant: Hazardous Air Pollutants, Total (THAP)

Emission Limit(s): 0.21 tons/yr <sup>(3)</sup>

Authority for Requirement: DNR Construction Permit 19-A-613

<sup>(3)</sup> Based on a maximum DDGS production rate of 33.5 tons/hour.

**Operating Requirements and Associated Recordkeeping**

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

- A. The owner or operator shall conduct an inspection of the emission units and the associated control equipment at a minimum of once per year and correct/repair any issues discovered during the inspection. The owner or operator shall maintain a log of all inspections and maintenance activities performed on the emission units and the associated control equipment. This log shall include, but is not necessarily limited to:
  - i. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;
  - ii. Any issues identified during the inspection and the date each issue was resolved;
  - iii. Any issues addressed during the maintenance activities and the date each issue was resolved; and,
  - iv. Identification of the staff person performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 19-A-613

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 83  
 Stack Outlet Dimensions, (inches): 12  
 Exhaust Flow Rate (scfm): 8,000  
 Exhaust Temperature (°F): Ambient  
 Discharge Style: Vertical obstructed (Rain Cap)  
 Authority for Requirement: DNR Construction Permit 19-A-613

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

**Monitoring Requirements**

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

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

*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.*

*Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

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

Authority for Requirement: 567 IAC 22.108(3)



## Emission Point ID Number: Flare

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU30	Ethanol Rail Loadout	Flare (CS18) 0.70 MMBtu/hour	Ethanol	72,000 gallons/hour	04-A-025-S5
EU Truck Loadout	Ethanol Truck Loadout			36,000 gallons/hour	

### 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 04-A-025-S5  
567 IAC 23.3(2)"d"

<sup>(1)</sup> The flare (CE-CS18) shall operate with no visible emissions, except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours. Therefore, outside of these periods, an exceedance of the indicator opacity of "no visible emissions" will require the owner or operator to promptly investigate the emission unit(s) 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) - State

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-025-S5  
567 IAC 23.3(2)"a"

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

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 04-A-025-S5  
567 IAC 23.3(3)"e"

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

Emission Limit(s): 1.82 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 04-A-025-S5  
567 IAC 23.3(3)"e"

<sup>(2)</sup> Based on a maximum product loadout of 109,023,000 gallons per year and a manufacturer's emission factor of 0.0334 lb of NO<sub>x</sub>/1000 gal product loaded.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 25.39 tons/yr <sup>(3)</sup>

Authority for Requirement: DNR Construction Permit 04-A-025-S5

<sup>(3)</sup> VOC emission are based on the following worst case scenario: (1) All product loading is done at the rail loadout; (2) A maximum annual product loading of 109,023,000 gallons, which includes a maximum of 9,170,000 gallons of natural gasoline and a maximum of 14,300,000 gallons of E85; and (3) Product loading emissions are not controlled by the flare (CE-CS18). Product at this facility includes anhydrous ethanol and varying blends of anhydrous ethanol and natural gasoline.

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 4.58 tons/yr <sup>(4)</sup>

Authority for Requirement: DNR Construction Permit 04-A-025-S5

<sup>(4)</sup> Based on a maximum product loadout of 109,023,000 gallons per year and a manufacturer's emission factor of 0.084 lb of CO/1000 gal product loaded.

Pollutant: Hazardous Air Pollutants, Total (THAP)

Emission Limit(s): 2.86 tons/yr <sup>(5)</sup>

Authority for Requirement: DNR Construction Permit 04-A-025-S5

<sup>(5)</sup> HAP emission are based on the following worst case scenario: (1) All product loading is done at the rail loadout; (2) A maximum annual product loading of 112,023,000 gallons, which includes a maximum of 9,170,000 gallons of natural gasoline and a maximum of 14,300,000 gallons of E85; and (3) Product loading emissions are not controlled by the flare (CE-CS18). Product at this facility includes anhydrous ethanol and varying blends of anhydrous ethanol and natural gasoline.

### **NSPS Applicability**

The "equipment," as defined in Title 40 of the Code of Federal Regulations (CFR) Part 60, Section 60.481, associated with the product loadout operation described in this permit is subject to 40 CFR Part 60, Subpart VV – *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification commenced after January 5, 1981, and on or before November 7, 2006.*

However, POET Biorefining – Hanlontown chooses to comply with the provisions of NSPS Subpart VVa, 40 CFR Part 6 §60.480a to satisfy the requirements of NSPS VV.

Authority for Requirement: DNR Construction Permit 04-A-025-S5

40 CFR 60 Subpart A

567 IAC 23.1(2)

40 CFR 60 Subpart VVa

567 IAC 23.1(2)"nn"

### **Operating Requirements and Associated Recordkeeping**

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

#### **Throughput Limits Requirements**

- A. The facility shall receive only natural gasoline for use in any loadout operation from the plant (Plant #: 98-07-004).
  - i. The owner or operator shall maintain on-site purchase records and manufacturer/vendor provided information (Safety Data Sheets, technical data sheets, etc.) for the natural gasoline received at the facility.
  - ii. Loadout of 100% natural gasoline (denaturant) shall occur only by truck and shall

be controlled by the flare (CE-CS18) at all times.

- B. The total amount of natural gasoline loaded out shall not exceed 9,170,000 gallons per rolling twelve-month period.
  - i. The owner or operator shall record the total amount of natural gasoline, in gallons, loaded out on a monthly basis.
  - ii. The owner or operator shall calculate and record the total amount of natural gasoline, in gallons, loaded out on a rolling 12-month basis.
- C. The total amount of E85 product loaded out at Plant Number 98-07-004 shall not exceed 14,300,000 gallons per rolling twelve-month period. E85 product shall be limited to truck loadout only.
  - i. The owner or operator shall record the total amount of E85 product, in gallons, loaded out at this facility on a monthly basis.
  - ii. The owner or operator shall calculate and record the total amount of E85 product, in gallons, loaded out at this facility on a rolling 12-month basis.
- D. The total amount of ethanol product loaded out at Plant Number 98-07-004 shall not exceed 109,023,000 gallons per rolling twelve-month period.
  - i. The owner or operator shall record the total amount of ethanol product, in gallons, loaded out at this facility on a monthly basis.
  - ii. The owner or operator shall calculate and record the total amount of ethanol product, in gallons, loaded out at this facility on a rolling 12-month basis.
  - iii. The 109,023,000 gallons of ethanol product loaded out includes a maximum of 9,170,000 gallons of natural gasoline and a maximum of 14,300,000 gallons of E85.

#### Equipment Operation

- E. Operation at the truck loadout shall be conducted as follows:
  - i. Truck loadouts may be switch-loaded, i.e., filled with ethanol product when the previous tank load was gasoline).
  - ii. The maximum amount loaded through the truck loading rack without being controlled by the flare (CE-CS18) shall not exceed 2,000,000 gallons per rolling twelve-month period (i.e., this exception does not apply to 100% denaturant loadout).
    - a. The owner or operator shall record the total amount, in gallons, loaded through the truck loading rack without being controlled by the flare (CE-CS18) on a monthly basis.
    - b. The owner or operator shall calculate and record the total amount, in gallons, loaded through the truck loading rack without being controlled by the flare (CE-CS18) on a rolling 12-month basis.
- F. Operation at the rail loadout shall be conducted as follows:
  - i. All rail loadouts shall be to dedicated tank cars, i.e., no switch loading).
  - ii. Emissions from rail loadouts are not required to be controlled by the flare (CE-CS18).

#### Control Equipment Requirements

- G. The flare (CE-CS18) shall be operated with no visible emissions, except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours.

- H. 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.
- I. The owner or operator shall continuously verify the output of the flame detection system indicating the presence of a flame, while loading.
- J. The owner or operator shall inspect and maintain the control equipment described in this permit according to the manufacturer’s specifications and instructions.
  - i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment described in this permit. At a minimum, this log shall include:
    - a. The date that any inspection and/or maintenance was performed on the control equipment;
    - b. Any issues identified during the inspection;
    - c. Any issues addressed during the maintenance activities and the date each issue was resolved; and,
    - d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 04-A-025-S5

**Emission Point Characteristics**

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

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

Stack Outlet Dimensions, (inches): 4

Exhaust Flow Rate (scfm): 100

Exhaust Temperature (°F): 1,500

Discharge Style: Vertical obstructed

Authority for Requirement: DNR Construction Permit 04-A-025-S5

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

**Monitoring Requirements**

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

**Compliance Demonstration Table**

<b>Pollutant</b>	<b>Compliance Methodology</b>	<b>Frequency</b>
VOC	Product loaded and material usage recordkeeping	12-month rolling
THAP	Product loaded and material usage recordkeeping	12-month rolling

Authority for Requirement: DNR Construction Permit 04-A-025-S5

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

Operating Requirements and Associated Recordkeeping contain Agency O & M equivalent monitoring.

**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: Cooling Tower

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
Cooling Tower	Cooling Tower	Mist Eliminator (Cooling Tower)	Water	30,000 gallons/minute	05-A-642-S2

### 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-642-S2  
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) - State

Emission Limit(s): 1.50 lb/hr <sup>(2)</sup>; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-642-S2  
567 IAC 23.3(2)"a"

<sup>(2)</sup> Based on TDS and 0.005% mist eliminator.

#### Operating Requirements and Associated Recordkeeping

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

- A. Any additive used in this cooling tower shall not contain VOCs or HAPs.
  - i. The owner or operator shall maintain MSDS sheets for any additive used in this cooling tower.
- B. The Total Dissolved Solids (TDS) concentration in the cooling water shall not exceed 2000 mg/l.
  - i. The owner or operator shall Sample and test the TDS in the cooling water quarterly. Pre-test notification for TDS sampling is waived.

Authority for Requirement: DNR Construction Permit 05-A-642-S2

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 33  
Stack Outlet Dimensions, (inches): 288  
Exhaust Flow Rate (scfm): 680,000  
Exhaust Temperature (°F): 98  
Discharge Style: Vertical obstructed  
Authority for Requirement: DNR Construction Permit 05-A-642-S2

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: F002

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Construction Permit
F002	Fugitive Dust Emissions from Truck Traffic	Chemical Dust Suppressant (CS21)	Dust	05-A-643-S4

### 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-643-S4  
567 IAC 23.3(2)"c"(1)

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

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 53.1 tons/yr

Authority for Requirement: DNR Construction Permit 05-A-643-S4

#### Operating Requirements and Associated Recordkeeping

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

##### Dust Suppressant Application Requirements

- 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 75% fugitive dust control. Regardless of conditions, the owner or operator must apply chemical dust suppressants to the entire truck travel pathways at least once per calendar year.
  - i. The owner or operator shall keep on-site a copy of the manufacturer's specifications for achieving the minimum fugitive dust control of 75 percent.
- B. 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 as the conditions preventing the application have been abated.
  - i. The owner or operator shall keep records of dust suppressant application, including the date, location of suppressant application, and amount.
  - ii. The owner or operator shall document all deviations from scheduled chemical suppressant applications, including the date, scheduled location of suppressant



application, and reasons for not applying suppressant.

- C. Dust suppressant need no occur whenever the haul roads will not be used or if the plant will not receive any truck traffic that day.

#### Emissions Calculations and Recordkeeping Requirements

- D. The owner or operator shall record PM emissions from truck traffic on a monthly basis.
- E. The owner or operator shall calculate and record PM emissions from truck traffic on a rolling 12-month basis.
- i. The owner or operator shall immediately notify the Department if the 12-month rolling total exceeds any of the emission limits in Condition 1 of this permit
- F. On a monthly basis, the owner or operator shall:
- i. Record the number of trucks that loaded/unloaded material;
  - ii. Record the vehicle miles traveled during the month; and,
  - iii. Calculate and record particulate matter (PM, PM<sub>10</sub> and PM<sub>2.5</sub>) emissions using the equations from AP-42, Section 13.2.2, the particulate matter (PM) empirical constants, a mean vehicle weight of 27.5 tons, 75 percent dust suppression, an average road surface silt content of 6%, and an average of 1.01 miles per truck delivery or loadout.

$$Emissions = \frac{\left[ k * \left( \frac{s}{12} \right)^a * \left( \frac{W}{3} \right)^b \right] \left[ \frac{365 - P}{365} \right] * VMT * (1 - 0.75)}{2000}$$

Where *Emissions* = tons of particulate matter (PM, PM<sub>10</sub> and PM<sub>2.5</sub>) emitted during the month

*VMT* = Vehicle miles traveled during the month

*s* = average road surface silt loading (%)

*W* = mean vehicle weight (tons)

*P* = Number of days in a year with at least 0.254 mm of precipitation

*k*, *a*, and *b* are empirical constants from AP-42, Table 13.2.2-2

Authority for Requirement: DNR Construction Permit 05-A-643-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: F004

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Construction Permit
F004	Fugitive VOC Emissions from Equipment Leaks	Leak Detection and Repair (LDAR)	VOC	05-A-644-S3

### 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): 5.66 tons/yr

Authority for Requirement: DNR Construction Permit 05-A-644-S3

Pollutant: Hazardous Air Pollutants, Total (THAP)

Emission Limit(s): 0.10 tons/yr

Authority for Requirement: DNR Construction Permit 05-A-644-S3

#### NSPS Applicability

POET Biorefining – Hanlontown 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, POET Biorefining – Hanlontown chooses to comply with the provisions of NSPS Subpart VVa, 40 CFR Part 6 §60.480a to satisfy the requirements of NSPS VV. POET Biorefining – Hanlontown is also subject to the requirements/conditions of NSPS Subpart A – *General Provisions*.

Authority for Requirement: DNR Construction Permit 05-A-644-S3  
40 CFR 60 Subpart A  
567 IAC 23.1(2)  
40 CFR 60 Subpart VVa  
567 IAC 23.1(2)"nn"

#### Operating Requirements and Associated Recordkeeping

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

- A. The 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.
  - i. The owner or operator shall calculate and record the VOC emissions based on the documented component count. Update annualized VOC 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.

- B. The owner or operator shall follow the applicable standards of Subpart VVa, 40 CFR 60.480a through 60.489a.
  - i. The owner or operator shall keep records as required in 40 CFR 60.486a, and reports as required in 40 CFR 60.487a.

Authority for Requirement: DNR Construction Permit 05-A-644-S3

**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>
VOC	LDAR
THAP	LDAR

**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: F005**

Associated Equipment

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Raw Material</b>
F005	Wet Cake Production	DDGS

**Applicable Requirements**

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

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

There are no emission limits at this time.

**Operating Requirements and Associated Recordkeeping**

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

There are no operating requirements 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: SV33

### Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
TK012	Gasoline Storage Tank	Gasoline	300 gallons	NA

### Applicable Requirements

#### NESHAP Applicability

The tank is subject to 40 CFR 63 Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities. According to 40 CFR 63.11112(b) this storage tank, located at an area source, is a new storage tank as it was constructed after November 9, 2006.

#### **§63.11115 What are my general duties to minimize emissions?**

Each owner or operator of an affected source under this subpart must comply with the requirements of paragraphs (a) and (b) of this section.

- (a) You must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
- (b) You must keep applicable records as specified in §63.11125(d).

#### **§63.11116 Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline.**

- (a) You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
  - (1) Minimize gasoline spills;
  - (2) Clean up spills as expeditiously as practicable;
  - (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
  - (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
- (b) You are not required to submit notifications or reports as specified in §63.11125, §63.11126, or subpart A of this part, but you must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.
- (c) You must comply with the requirements of this subpart by the applicable dates specified in §63.11113.
- (d) Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(3) of this section.

**§63.11125 What are my recordkeeping requirements?**

(d) Each owner or operator of an affected source under this subpart shall keep records as specified in paragraphs (d)(1) and (2) of this section.

- (1) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
- (2) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

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

#### **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 – Link to Standards

40 CFR 60 Subpart A - Standards Of Performance For New Stationary Sources – General Provisions

[https://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40cfr60\\_main\\_02.tpl](https://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40cfr60_main_02.tpl)

40 CFR 60 Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

[https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.d\\_0c](https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.d_0c)

40 CFR 60 Subpart DD - Standards of Performance for Grain Elevators

<https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.dd>

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?node=sp40.7.60.k\\_0b](https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.k_0b)

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?node=sp40.7.60.vv\\_0a](https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.vv_0a)

40 CFR 63 Subpart A - National Emission Standards For Hazardous Air Pollutants For Source Categories – General Provisions

[https://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40cfr63\\_main\\_02.tpl](https://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40cfr63_main_02.tpl)

40 CFR 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

<https://www.ecfr.gov/cgi-bin/text-idx?c=ecfr;rgn=div6;view=text;node=40%3A14.0.1.1.1.1;idno=40;sid=e94dcfde4a04b27290c445a56e635e58;cc=ecfr>

40 CFR 63 Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Categories: Gasoline Dispensing Facilities

<https://ecfr.io/Title-40/sp40.16.63.cccccc>

## V. Appendix B – Agency Baghouse O&M Plan

### Dust Filter (Baghouse) Agency Operation & Maintenance Plan

SV-7 DDGS Fluid Bed Cooler  
SV-29 Hammermill #1-5

**EMMISSION POINT:** SV7 - DDGS Fluid Bed Cooler Baghouse (CS9)  
SV29 - Hammermill #1-5 Baghouses (CS3, CS19, CS20, CS21 and CS23)

#### **Monitoring Guidelines**

POET Biorefining-Hanlontown makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time, or the presence of a monitored abnormal condition. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the excursion to the department and continue to eliminate the root cause. TCE will implement any/all corrective actions needed to bring the source into compliance as soon as possible.

#### **Monitoring Methods & Corrective Actions**

##### **General**

- Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.
- POET Biorefining-Hanlontown will maintain a written record of the observation, deficiencies, and any action resulting from the inspections.

##### **Weekly**

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions during the material handling operation of the unit. Check for dust in clean air outlet from filter.  
If visible emissions are observed this would be an exceedence, not a violation and action will be taken as soon as possible, but no later than 8 hours after the occurrence.
- Check and record magnehelic gauge reading. Adverse operating conditions can be detected by a change in pressure. Filter bags replacement may be needed if necessary.
- Check filter hopper and airlock (A-620) for continuous discharge of dust.
- Check the explosion vents for damage/release.
- POET Biorefining-Hanlontown will maintain a written record of the observations, deficiencies, and any action resulting from the inspection.
  - Note: If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours.

### **Semiannual**

- Check the filter bags for signs of excessive wear or damage. Replace bags when needed.
- Check for evidence of excessive moisture or dust buildup inside the filter housing.
- Check operation of mechanical solenoids and diaphragm valves inside the baghouse.
- Check oil in the gearbox. Do not overfill.
- Check belt tension on all V-belts drives.
- POET Biorefining-Hanlontown will maintain a written record of the observations, deficiencies, and any action resulting from the inspection.
  - Note: If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours.

### **Bag Replacement**

- Inspect bag filters, replace with new when needed. All filter bags will be discarded and only new bags will be used.
- Inspect cages for rust or damage and replace if necessary.
- The filter bags are the heart of the filter; POET-Hanlontown has developed an inspection, cleaning, and replacement program to maintain a high operating efficiency.
- POET-Hanlontown will maintain a written record of the observations, deficiencies, and any action resulting from the inspection.
  - Note: If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented before the system is returned to service.

### **Record Keeping and Reporting**

- POET-Hanlontown will maintain a written or electronic record of all inspections and any action resulting from the inspections.
- POET-Hanlontown will keep maintenance and inspection records for five (5) years and will be available upon request.

### **Quality Control**

- All instruments and control equipment will be inspected, maintained, and operated according to the manufacture specifications.

Basis for O&M: MAC Equipment, Inc - *Publication: MAN3012D*