Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: POET Biorefining - Coon Rapids
Facility Location: 1015 Grand Avenue, Coon Rapids, Iowa 50058
Air Quality Operating Permit Number: 07-TV-001R3
Expiration Date: 07/13/2027

Permit Renewal Application Deadline: 01/13/2027

EIQ Number: 92-6922
Facility File Number: 39-11-001

Responsible Official
Name: Patrick Lappe
Title: General Manager
Mailing Address: 1015 Grant Avenue, Coon Rapids, IA 50058
Phone #: (712) 684-9201

Permit Contact Person for the Facility
Name: Britany Bauman
Title: EH&S Specialist
Mailing Address: 1015 Grant Avenue, Coon Rapids, IA 50058
Phone #: (712) 684-9213

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

For the Director of the Department of Natural Resources

Marnie Stein — 07/14/2022

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
^{o}F.....degrees Fahrenheit
EIQ.....emissions inventory questionnaire
EP.....emission point
EU .....emission unit
gals/hr…… gallons per hour
gals/min.....gallons per minute
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
NESHAP .....National Emission Standards for Hazardous Air Pollutants
ppmv .....parts per million by volume
lb./hr .....pounds per hour
lb./MMBtu .....pounds per million British thermal units
SCC .....Source Classification Codes
scfm.....standard cubic feet per minute
SIC .....Standard Industrial Classification
TPY .....tons per year
USEPA.....United States Environmental Protection Agency

Pollutants
PM.....particulate matter
PM_{10} .....particulate matter ten microns or less in diameter
SO_2 .....sulfur dioxide
NO_x .....nitrogen oxides
VOC .....volatile organic compound
CO .....carbon monoxide
HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: POET Biorefining-Coon Rapids
Permit Number: 07-TV-001R3

Facility Description: Ethanol Fuel Production (SIC 2869)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP-SV1	EU-1	3 Corn Receiving Pits	01-A-434-S5
	EU-2	Elevator & Conveyors	
	EU-3	6 Grain Bins	
	EU-1a	DDGS Loadout	
EP-SV2	EU-4	Corn Scalper, Elevator & Surge Bin	01-A-435-S1
EP-SV4 EP-SV35	EU-4.1 - EU-4.6, EU-4.9	Fermenters #1 - #7	01-A-437-S12 17-A-066-S2
	EU-4.7	Beerwell	
	EU-4.8	Yeast Tank	
	EU-7	Distillation (Molecular Sieves)	
EP-SV6	EU-8a	DDGS Dryer #1 (Process)	01-A-439-S12
	EU-8b	DDGS Dryer #1 (Combustion)	
	EU-9a	DDGS Dryer #2 (Process)	
	EU-9b	DDGS Dryer #2 (Combustion)	
	EU15,16,17,18,30	Centrifuges #1 - #5	
EP-SV7	EU-10	DDGS Cooling Cyclone	01-A-440-S6
EP-SV8	EU-11	DDGS Storage Silo	01-A-441-S1
EP-SV9	EU-12	Boiler #1	01-A-442-S4
EP-SV10	EU-13	Boiler #2	01-A-443-S4
EP-SV11	EU-14	Boiler #3	01-A-444-S4
EP-SV22	EU-19	Diesel Generator	02-A-510-S4
EP-SV Flare1	EU-20	Truck Fuel Ethanol Product Loading Rack #1	02-A-788-S9
	EU-20a	Truck Fuel Ethanol Product Loading Rack #2	
	EU-20b	Rail Fuel Ethanol Product Loading Rack	
EP-SV25	EU-23	General Exhaust System	04-A-579-S1
EP-SV29	EU-27	Hammermill #1	04-A-583-S3
EP-SV30	EU-28	Hammermill #2	04-A-584-S2
EP-SV33	EU-32	Hammermill #3	10-A-066-S3

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP-SV36	EU-33	Hammermill #4	18-A-295-S1
EP-SV31	EU-29	Pneumatic Flour Conveyor/ Receiver	04-A-979-S1
EP-SV32	EU-31	Air Heater	04-A-1006
EP-SV34	EU 15, 16, 17, 18, 30, 35	Centrifuge Bypass Stack	17-A-067-S2
EP-WFB	EU-WFB	Wet Fiber Building	04-A-980-S2
EP-CT	EU-CT	Cooling Tower	None
EP-Fugitive 1	EU-Fugitive 1	Corn Receiving - Truck & Railcar	None
EP-F002	EU-Fugitive 1B	Haul Roads	07-A-1286-S3
EP-Fugitive 2	EU-Fugitive 2	Equipment Leaks	08-A-683-S1
EP-Fugitive 3	EU-Fugitive 3	Ethanol Rail Loading	None
EP-Fugitive 4	EU-Fugitive 4	DDGS &Germ Product Loading	None
EP-SV12	EU-TK001	190 Proof Ethanol Tank	01-A-445-S1
EP-SV13	EU-TK002	Denaturant Tank	01-A-446-S3
EP-SV14	EU-TK003	200 Proof Ethanol Tank	01-A-447-S3
EP-SV15	EU-TK004	200 Proof Ethanol Tank	01-A-448-S3
EP-SV17	EU-TK006	Denaturant Tank	01-A-449-S3
EP-TK011	EU-TK011	Gasoline Storage Tank (500 gallon)	None

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
RailMaint	Railcar Venting Prior to Maintenance
CORNOIL	Corn Oil Separation System
SYRUP	Syrup Tank (61,000 gallon)
T. STILLAGE	Thin Stillage Tank (450,000 gallon)
DISTILATE	Distillate Tank (80,000 gallon)
CI TANK	Corrosion Inhibitor Storage Tank Horizontal (1000 gallon)
SA TANK	Sulfuric Acid Storage Tank (98%)
TK007	Slurry Tank (61,000 gallon)
TK012	Diesel Storage Tank Horizontal (500 gallon)

II. Plant-Wide Conditions

Facility Name: POET Biorefining-Coon Rapids
Permit Number: 07-TV-001R3

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

Permit Duration

The term of this permit is: Five years from permit issuance
Commencing on: 07/014/2022
Ending on: 07/13/2027

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

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_2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter:
No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed on or after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.
For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved

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

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

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

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40 CFR 60 Subpart A Requirements

This facility is an affected source and these General Provisions apply to the facility. The affected units are EU-12, EU-13, EU-14, EU-1, EU-2, EU-3, EU-TK001, EU-TK002, EU-TK003, EU-TK004, EU-TK006, and EU-Fugitive2.

See Appendix A for the link to the Standard.

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

40 CFR 60 Subpart Dc Requirements

This facility is subject to Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. The affected units are EU-12, EU-13, and EU-14.

See Appendix A for the link to the Standard.

Authority for Requirement: 40 CFR 60 Subpart Dc
567 IAC 23.1(2)"lll"

40 CFR 60 Subpart DD Requirements

This facility is subject to Standards of Performance for Grain Elevators. The affected units are EU-1, EU-2, and EU-3.

See Appendix A for the link to the Standard.

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

40 CFR 60 Subpart Kb Requirements
This facility is subject to Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. The affected units are EU-TK001, EU-TK002, EU-TK003, EU-TK004, and EU-TK006.
See Appendix A for the link to the Standard.
Authority for Requirement: 40 CFR 60 Subpart Kb
567 IAC 23.1(2)"ddd"

40 CFR 60 Subpart VVa Requirements
This facility is subject to Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006. The facility chose to comply with the provisions of NSPS Subpart VVa, 40 CFR Part 60 §60.480a to satisfy the requirements of NSPS Subpart VV. The affected units are equipment in VOC service and any applicable devices and systems (as defined in 40 CFR 60.481) in the entire facility. The owner or operator shall comply with the applicable requirements in 40 CFR 60.480 through 60.489, including recordkeeping requirements in 40 CFR 60.486 and reporting requirements in 40 CFR 60.487.
See Appendix for the link to the Standard.
Authority for Requirement: 40 CFR 60 Subpart VVa
567 IAC 23.1(2)"nn"

40 CFR Part 63 Subpart A Requirements
This facility is an affected source and these General Provisions apply to the facility. The affected unit is EU-19.
See Appendix A for the link to the Standard.
Authority for Requirement: 40 CFR 63 Subpart A
567 IAC 23.1(4)"a"

40 CFR Part 63 Subpart ZZZZ Requirements
This facility is of the source category affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ]. The affected unit is EU-19.
See Appendix A for the link to the Standard.
Authority for Requirement: 40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

40 CFR Part 63 Subpart CCCCCC Requirements
This facility is of the source category affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities. The affected unit is EU-TK011.
See Appendix A for the link to the Standard.
Authority for Requirement: 40 CFR 63 Subpart CCCCCC

III. Emission Point-Specific Conditions

Facility Name: POET Biorefining-Coon Rapids
Permit Number: 07-TV-001R3

Emission Point ID Number: EP-SV1

Associated Equipment

EU ID	Description	Maximum Rated Capacity	Control Equipment Description and ID
EU-1	3 Grain Receiving Pits	840 tons of grain per year; combined	Baghouse (CE-CS1)
EU-2	Elevators and Conveyors		
EU-3	6 Grain Bins		
EU-1a	DDGS Loadout	150 tons of DDGS per 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 01-A-434-S5
40 CFR 60 Subpart DD
567 IAC 23.1(2)"ooo"

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limit(s): 1.10 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-434-S5

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.10 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-434-S5

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 1.10 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-434-S5
567 IAC 23.4(7)

Pollutant: Particulate Matter (PM) - Federal
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-434-S5
40 CFR 60 Subpart DD
567 IAC 23.1(2)"ooo"

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 1.28 lb/hr, 0.01 lb/ton DDGS loaded out
Authority for Requirement: DNR Construction Permit 01-A-434-S5

Pollutant: Single HAP (SHAP)
Emission Limit(s): 0.11 lb/hr, 0.001 lb/ton DDGS loaded out
Authority for Requirement: DNR Construction Permit 01-A-434-S5

Pollutant: Total HAP (THAP)
Emission Limit(s): 0.34 lb/hr; 0.002 lb/ton DDGS loaded out
Authority for Requirement: DNR Construction Permit 01-A-434-S5

Operating Requirements with Associated Monitoring and Recordkeeping

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

Equipment Operation and Throughput Limit Requirements

A. The owner or operator shall operate the baghouse (CE-CS1) at all times that any of the emission units described in this permit is in operation.

B. The owner or operator shall lock out the aeration fan during the loading of the grain bins (EU-3) and shall continue to operate the system under negative pressure (vent emissions through the baghouse, CE-CS1) for a minimum of 30 minutes after the loading of the grain bins (EU-3) has been completed.

C. The owner or operator shall conduct visible emissions observations on Emission Point SV1 once per calendar day. This requirement shall not apply on the days that none of the emission units described in this permit is in operation.
   i. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.
   ii. If visible emissions from EP-SV1 are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated operations or equipment.
   iii. The owner or operator shall maintain a record of all corrective actions taken.

D. The maximum amount of grain received at Plant No. 39-11-001 shall not exceed 27.78 million bushels per rolling 12-month period.
   i. The owner or operator shall record the total amount, in bushels, of grain received at Plant No. 39-11-001 on a monthly basis.

ii. The owner or operator shall calculate and record the total amount, in bushels, of grain received at Plant No. 39-11-001 on a rolling 12-month basis.

E. The maximum amount of DDGS loaded out at Plant No. 39-11-001 shall not exceed 200,000 tons per rolling 12-month period.
   i. The owner or operator shall record the total amount, in tons, of the DDGS loaded out at Plant No. 39-11-001 on a monthly basis.
   ii. The owner or operator shall calculate and record the total amount, in tons, of the DDGS loaded out at Plant No. 39-11-001 on a rolling 12-month basis.

New Source Performance Standards Requirements

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

Control Equipment Requirements

G. The owner or operator shall inspect and maintain the baghouse (CE-CS1) according to the manufacturer's specifications and instructions and/or the facility's (Plant No. 39-11-001) operation and maintenance plan.
   i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-CS1). At a minimum, this log shall include:
      1. The date that any inspection and/or maintenance was performed on the baghouse;
      2. Any issues identified during the inspection;
      3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
      4. Identification of the staff member performing the maintenance activities.

Authority for Requirement: DNR Construction Permit 01-A-434-S5

NSPS Applicability

Emission units EU-1 and EU-2 are subject to NSPS Subpart A – *General Provisions* and Subpart DD – *Standards of Performance for Grain Elevators*.

Authority for Requirement: DNR Construction Permit 01-A-434-S5
40 CFR 60 Subpart A
40 CFR 60 Subpart DD
567 IAC 23.1(2)
567 IAC 23.1(2)"ooo"

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 58
Stack Opening, (inches): 20×40
Exhaust Flow Rate (scfm): 20,000
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 01-A-434-S5

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

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

Opacity Monitoring

Visible emissions shall be observed on a weekly basis to ensure that 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 opacity 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.

Stack Testing

Pollutant – VOC
Stack Test to be Completed by – Once Every 3 years (1)
Test Method - 40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
Authority for Requirement – DNR Construction Permit 01-A-434-S5

Pollutant – HAP
Stack Test to be Completed by – Once Every 3 years [1] [2]
Test Method - 40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
Authority for Requirement – DNR Construction Permit 01-A-434-S5

[1] VOC and HAP periodic testing shall be conducted once every three years and only during the months of June, July, or August, while all affected equipment is operating in a worst-case scenario, e.g., highest production rate, highest exhaust flow rate, etc. The VOC and HAP periodic testing on EP-SV1 as required by this permit shall commence in June, July, or August of Year 2024.

[2] Acetaldehyde, acrolein, formaldehyde, and methanol shall be tested for specifically. The specified HAP that tests below the detection limit shall be assumed to be emitting at a rate equal to the detection limit.

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV2

Associated Equipment

Associated Emission Unit ID Numbers: EU-4
Emissions Control Equipment ID Number: CE-CS2
Emissions Control Equipment Description: Pulse Jet Baghouse

Emission Unit vented through this Emission Point: EU-4
Emission Unit Description: Corn Scalper, Elevator & Surge Bin
Raw Material/Fuel: Corn
Rated Capacity: 140 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 01-A-435-S1
567 IAC 23.3(2)"d"

[(1)]An exceedance of the indicator opacity of "No Visible Emissions" (NVE) 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_{10})
Emission Limit(s): 0.15 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-435-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.15 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-435-S1
567 IAC 23.4(7)

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

Operating Limits

A. Maintain Pulse Jet Baghouse (B-840) according to manufacturer specifications and maintenance schedule.

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

A. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of Pulse Jet Baghouse (B-840).

Authority for Requirement: DNR Construction Permit 01-A-435-S1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 68
Stack Opening, (inches): 8×10
Exhaust Flow Rate (scfm): Natural Air Displacement
Exhaust Temperature (°F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 01-A-435-S1

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV4 and EP-SV35

Associated Equipment

EP ID	EU ID	Description	Maximum Input Capacity	Maximum Output Capacity	CE Description and ID	Permit Number
EP-SV4	EU-4.1	Fermenter #1	66,500 gal/hr, all 7 fermenters combined	300,000 gal/hr, all 7 fermenters combined	Scrubber #1 (CE-CS4)	01-A-437-S13
	EU-4.2	Fermenter #2				
	EU-4.3	Fermenter #3				
	EU-4.4	Fermenter #4				
	EU-4.5	Fermenter #5				
	EU-4.6	Fermenter #6				
	EU-4.9	Fermenter #7				
	EU-4.7	Beer Well	300,000 gal/hr	833 gal/min		
	EU-4.8	Yeast Tank	17,600 gallons	NA		
	EU-7	Distillation	50,000 gal/hr	NA		
EP-SV35	EU-4.1	Fermenter #1	66,500 gal/hr, all 7 fermenters combined	300,000 gal/hr, all 7 fermenters combined	Scrubber #2 (CE-CS23)	17-A-066-S2
	EU-4.2	Fermenter #2				
	EU-4.3	Fermenter #3				
	EU-4.4	Fermenter #4				
	EU-4.5	Fermenter #5				
	EU-4.6	Fermenter #6				
	EU-4.9	Fermenter #7				
	EU-4.7	Beer Well	300,000 gal/hr	833 gal/min		
	EU-4.8	Yeast Tank	17,600 gallons	NA		
	EU-7	Distillation	50,000 gal/hr	NA		

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% [1] [3]
Authority for Requirement: DNR Construction Permits 01-A-437-S13, 17-A-066-S2
567 IAC 23.3(2)"d"

[1] 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_{10})
Emission Limit(s): 0.20 lb/hr [2]
Authority for Requirement: DNR Construction Permits 01-A-437-S13, 17-A-066-S2

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 3.86 lb/hr [3]; 0.1 gr/dscf [3]
Authority for Requirement: DNR Construction Permits 01-A-437-S13, 17-A-066-S2
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 29.09 lb/hr [2]
Authority for Requirement: DNR Construction Permits 01-A-437-S13, 17-A-066-S2

Pollutant: Single HAP
Emission Limit(s): 0.90 lb/hr [2]
Authority for Requirement: DNR Construction Permits 01-A-437-S13, 17-A-066-S2

Pollutant: Total HAP
Emission Limit(s): 1.24 lb/hr [2]
Authority for Requirement: DNR Construction Permits 01-A-437-S13, 17-A-066-S2

[2] Combined emission rate for EP-SV4 and EP-SV35.

[3] Emission limits for Individual EPs SV4 and SV35

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by these permits 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 requirements for these permits shall be:

Control Equipment Requirements

A. The owner or operator shall operate either Scrubber #1 (CE-CS4) or Scrubber #2 (CE-CS23) at all times any of the equipment described in this section is in operation.
    i. The owner or operator shall operate the scrubber controlling emissions until the fermentation cycles have been completed during plant shutdown.

B. The owner or operator shall maintain an average differential pressure drop across the scrubber controlling emissions between 1 and 12 inches of water column, based on a 3-hour averaging period. This requirement shall not apply on the days that the equipment described in this section and the scrubber controlling emissions are not in operation.
    i. The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the pressure drop (in inches of water column) across the scrubber controlling emissions. This equipment shall be installed, operated, and maintained in accordance with the manufacturer's specifications and/or the facility's operation and maintenance plan.
    ii. The owner or operator shall collect and record the pressure drop (in inches of water column) across the scrubber controlling emissions at a minimum of once every 15 minutes and calculate and record the 3-hour average differential pressure drop for the scrubber controlling emissions. The 3-hour average differential pressure drop for the scrubber controlling emissions shall be calculated using all data points collected during the averaging period.
    iii. If any of the differential pressure drop (in inches of water column) 3-hour averages across the scrubber controlling emissions falls outside the required range, the owner or operator shall record the time, date, and actions taken to correct the situation and shall record when the average differential pressure drop is back within the required range.

C. The owner or operator shall maintain a 3-hour average total liquor flow rate (in gallons per minute) into the scrubber controlling emissions at or above the average rate observed during the most recent compliance test that demonstrated compliance with all applicable emission limitations. This requirement shall not apply on the days that the equipment described in this section and the scrubber controlling emissions are not in operation.
    i. The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the total liquor flow rate (in gallons per minute) into the scrubber controlling emissions. This equipment shall be installed, operated, and maintained in accordance with the manufacturer's specifications and/or the facility's operation and maintenance plan.
    ii. The owner or operator shall collect and record the total liquor flow rate (in gallons per minute) into the scrubber controlling emissions at a minimum of once every 15 minutes and calculate and record the 3-hour average total liquor flow rate into the scrubber controlling emissions. The 3-hour average total liquor flow rate into the scrubber

controlling emissions shall be calculated using all data points collected during the averaging period.

iii. If any of the total liquor flow rate (in gallons per minute) 3-hour averages into the scrubber controlling emissions falls below the minimum required value, the owner or operator shall record the time, date, and actions taken to correct the situation and shall record when the average total liquor flow rate is back at or above the minimum required value.

iv. Use of a lower total liquor flow rate requires the owner or operator to first obtain a variance to test the lower total liquor flow rate. The owner or operator shall submit the test results to the Department for review and approval. Once approved, the owner or operator shall be allowed to use the lower total liquor flow rate.

D. The owner or operator shall maintain a 3-hour average additive feed rate (in milliliters per minute) into the scrubber controlling emissions at or above the average rate observed during the most recent compliance test that demonstrated compliance with all applicable emission limitations. This requirement shall not apply on the days that the equipment described in this section and the scrubber controlling emissions are not in operation.

i. The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the additive feed rate (in milliliters per minute) into the scrubber controlling emissions. This equipment shall be installed, operated, and maintained in accordance with the manufacturer's specifications and/or the facility's operation and maintenance plan.

ii. The owner or operator shall collect and record the additive feed rate (in milliliters per minute) into the scrubber controlling emissions at a minimum of once every 15 minutes and calculate and record the 3-hour average additive feed rated into each scrubber. The 3-hour average additive feed rated into the scrubber controlling emissions shall be calculated using all data points collected during the averaging period.

iii. If any of the additive feed rate (in milliliters per minute) 3-hour averages into the scrubber controlling emissions falls below the minimum required value, the owner or operator shall record the time, date, and actions taken to correct the situation and shall record when the average additive feed rate is back at or above the minimum required value.

iv. Use of a different additive and/or use of a lower additive feed rate requires the owner or operator to first obtain a variance to test the new additive and/or the lower additive feed rate. The owner or operator shall submit the test results to the Department for review and approval. Once approved, the owner or operator shall be allowed to use the new additive and/or the lower additive feed rate.

E. The use of both scrubbers (CE-CS4 and CE-CS23) to control emissions simultaneously requires the owner or operator to first obtain a variance to test the simultaneous operation of the scrubbers. The owner or operator shall submit the test results to the Department for review and approval. Once approved, the owner or operator shall be allowed to use both scrubbers to control emissions simultaneously.

F. The owner or operator shall maintain on-site a copy of the most recent compliance test report for each operating scenario, i.e., *Scrubber CS4 Operating Scenario, Scrubber CS23 Operating Scenario,* and *Combined Scrubbers CS4 and CS23 Operating Scenario* that demonstrated compliance with all applicable emission limitations. At a minimum, each report shall include:

i. The emission rates (in pounds per hour) observed during the testing;
ii. The average differential pressure drop (in inches of water column) across each scrubber observed during the testing;
iii. The average total liquor flow rate (in gallons per minute) into each scrubber during the testing;
iv. The type of additive used during the testing;
v. The average additive feed rate (in milliliters per minute) into each scrubber during the testing; and
vi. The average beerfeed rate (in gallons per minute) observed during the testing.

G. The owner or operator shall inspect and maintain the scrubbers according to the manufacturer's specifications and/or the facility's (Plant No. 39-11-001) operation and maintenance plan.
   i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the scrubbers. At a minimum, this log shall include the following:
      1. The date that any inspection and/or maintenance was performed on the scrubbers;
      2. Any issues identified during inspection;
      3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
      4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 01-A-437-S13, 17-A-066-S2

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

EP ID	Stack Height (feet, from the ground)	Discharge Style	Stack Outlet Dimension (inches)	Exhaust Temperature (°F)	Exhaust Flowrate (scfm)
EP-SV4	68	Vertical, unobstructed	24	80	7,200
EP-SV35	68	Vertical, unobstructed	24	80	9,000

Authority for Requirement: DNR Construction Permits 01-A-437-S13, 17-A-066-S2

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

Monitoring Requirements

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

Stack Testing (2) (3) (4)

Pollutant – Volatile Organic Compounds (VOC)
Stack Test to be Completed by – Annually (1)
Test Method - 40 CFR 63, Appendix A, Method 320, or
40 CFR 60, Appendix A, Method 18
Authority for Requirement – DNR Construction Permits 01-A-437-S13, 17-A-066-S2

Pollutant –HAP (5)
Stack Test to be Completed by – Annually (1)
Test Method – 40 CFR 63, Appendix A, Method 320, or
40 CFR 60, Appendix A, Method 18
Authority for Requirement – DNR Construction Permits 01-A-437-S13, 17-A-066-S2

(1) VOC and HAP periodic testing to demonstrate compliance with the emission limits under Applicable Requirements of this Title V shall be completed annually during the months of June, July, or August.

(2) VOC and HAP initial and periodic testing shall be conducted *individually* on EP-SV4 and on EP-SV35 to demonstrate that each scrubber complies with the limits under Applicable Requirements of this Title V permit. When conducting testing on EP-SV4, the facility shall not vent emissions through EP-SV35 and all emissions shall be vented through EP-SV4. Similarly, when conducting testing on EP-SV35, the facility shall not vent emissions through EP-SV4 and all emissions shall be vented through EP-SV35.

(3) VOC and HAP testing shall be conducted *simultaneously* on EP-SV4 and EP-SV35 only if the owner or operator chooses to operate Scrubber #1 (CE-CS4) and Scrubber #2 (CE-CS23) simultaneously. VOC and HAP testing shall be conducted prior to starting simultaneous operation of the scrubbers. After the first EP-SV4 and EP-SV35 simultaneous testing, Plant Number 39-11-001 shall conduct EP-SV4 and EP-SV35 simultaneous testing once every year during the months of June, July, or August.

(4) All VOC and HAP testing shall be conducted while all the affected equipment is operating in a worst-case scenario, e.g., highest production rate, highest exhaust flow rate, etc.

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

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

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

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

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

CAM Plan required for Scrubber #1 (CE-CS4) and Scrubber #2 (CE-CS23) for VOCs. Operating Requirements with Associated Monitoring and Recordkeeping fulfill requirement for CAM compliance, so no formal CAM Plan is required at this time.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV6

Associated Equipment

Emission Unit	EU ID	Maximum Rated Capacity	Output Capacity	1st Control Device Description and ID	Final Control Device Description and ID
DDGS Dryer #1	EU-8a	-	27 tons/hour (DDGS out)	Multiclone (CE-CS6)	Regenerative Thermal Oxidizer (CE-CS8)
	EU-8b	55 MMBtu/hr	-		
DDGS Dryer #2	EU-9a	-	27 tons/hour (DDGS out)	Multiclone (CE-CS7)	
	EU-9b	55 MMBtu/hr	-		
Centrifuge #1	EU-15	220 gal/min	-	NA	
Centrifuge #2	EU-16	220 gal/min	-	NA	
Centrifuge #3	EU-17	220 gal/min	-	NA	
Centrifuge #4	EU-18	220 gal/min	-	NA	
Centrifuge #5	EU-30	220 gal/min	-	NA	
Corn Oil Separation System	EU-35	140 gal/min	-	NA	

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 01-A-439-S12
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 20.0 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-439-S12
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 01-A-439-S12
567 IAC 23.3(3)"e"
Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 14.35 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-439-S12

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 12.05 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-439-S12

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 23.12 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-439-S12

Pollutant: Single HAP
Emission Limit(s): 0.84 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-439-S12

Pollutant: Total HAP
Emission Limit(s): 1.64 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-439-S12

Operational Requirements with Associated Monitoring and Recordkeeping

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

Regenerative Thermal Oxidizer CS8 Operation Requirements

A. DDGS Dryer #1, DDGS Dryer #2, and the RTO shall combust only natural gas and/or process off-gases.

B. The RTO shall be operated at all times that process streams from DDGS Dryer #1 and DDGS Dryer #2 are vented to it. Process streams from all other emission units listed under Associated Equipment of this Title V permit may by-pass the RTO for no more than 500 hours per 12-month rolling period.
    i. The owner or operator shall maintain records of by-pass periods, in hours, as required in the construction permit issued to Centrifuge By-Pass Stack SV34.

C. The RTO operating temperature, measured as a 3-hour average, shall be maintained at no less than 50 degrees Fahrenheit below the average temperature recorded during the most recent stack test that demonstrated compliance with all applicable emission limitations.
    i. The owner or operator shall retain the most recent stack test for the RTO that demonstrated compliance with all applicable emission limitations.
    ii. The owner or operator shall document the average temperature of the RTO recorded during the most recent stack test that demonstrated compliance with all applicable emission limitations.
    iii. The owner or operator shall determine the minimum operating temperature of the RTO as follows:
        i. Minimum Operating Temperature = Average temperature recorded during the most recent stack test that demonstrated compliance with all applicable emission limitations – 50ºF.
    iv. The owner or operator shall continuously collect and record the operating temperature, in

degrees Fahrenheit, of the RTO.

v. The owner or operator shall calculate and record the operating temperature 3-hour averages, in degrees Fahrenheit, of the RTO.
    i. If any operating temperature 3-hour average does not comply with the minimum operating temperature, the owner or operator shall investigate and make any necessary corrections.

D. The owner or operator shall maintain records of the frequency and amount of time that the RTO malfunctions and shall estimate and record the emissions emitted during said malfunctions. All excess emission reporting shall be conducted in accordance with Permit Condition 12 of this permit.

Control Equipment Requirements

E. The owner or operator shall inspect and maintain Multiclone CS6, Multiclone CS7, and Regenerative Thermal Oxidizer CS8 (RTO) according to the manufacturer's specifications and/or the facility's (Plant No. 39-11-001) operation and maintenance plan.
    i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. At a minimum, this log shall include:
        1. The date that any inspection and/or maintenance was performed on the control equipment;
        2. Any issues identified during the inspection;
        3. Any issues addressed during the maintenance activities and the date each issue was resolved;
        4. Any actions taken to correct the RTO operating temperature malfunctions; and
        5. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 01-A-439-S12

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 100
Stack Opening, (inches, dia.): 66
Exhaust Flow Rate (scfm): 57,800
Exhaust Temperature (°F): 330
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-439-S12

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

Monitoring Requirements

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

Stack Testing

Pollutant – Particulate Matter (PM) – State
Stack Test to be Completed by – Once every 3 years [(1)]
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51, Appendix M, Method 202
Authority for Requirement – DNR Construction Permit 01-A-439-S12

Pollutant – Nitrogen Oxide (NO_x)
Stack Test to be Completed by – Once every 3 years [(1)]
Test Method - 40 CFR 60, Appendix A, Method 7E
Authority for Requirement – DNR Construction Permit 01-A-439-S12

Pollutant – Volatile Organic Compounds (VOC)
Stack Test to be Completed by – Annual [(2)]
Test Method – 40 CFR 63, Appendix A, Method 320, or
40 CFR 60, Appendix A, Method 18
Authority for Requirement – DNR Construction Permit 01-A-439-S12

Pollutant – Carbon Monoxide (CO)
Stack Test to be Completed by – Once every 3 years [(1)]
Test Method - 40 CFR 60, Appendix A, Method 10
Authority for Requirement – DNR Construction Permit 01-A-439-S12

Pollutant –HAP
Stack Test to be Completed by – Annual [(2)] [(3)]
Test Method – 40 CFR 63, Appendix A, Method 320, or
40 CFR 60, Appendix A, Method 18
Authority for Requirement – DNR Construction Permit 01-A-439-S12

[(1)] PM, NO_x, and CO testing shall be conducted once every three years while all affected equipment is operating in a worst-case scenario, e.g., highest production rate, highest exhaust flow rate, etc. The most recent test that demonstrated compliance with the emission limits for these pollutants was conducted on December 8, 2020. The next PM, NO_x, and CO testing shall be completed by December 8, 2023.

[(2)] VOC and HAP testing shall be conducted annually while all affected equipment is operating in a worst-case scenario, e.g., highest production rate, highest exhaust flow rate, etc. The most recent test that demonstrated compliance with the emission limits for these pollutants was conducted on June 28, 2021. The next VOC and HAP testing shall be completed by June 30, 2024.

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

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

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

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☒ **No** ☐
For PM, $PM_{10,}$ and $PM_{2.5}$

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
CAM plan is required for VOC (CE-CS8). Operational Requirements with Associated Monitoring and Recordkeeping fulfills the CAM requirement, so no formal CAM Plan is required at this time.

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV7

Associated Equipment

Associated Emission Unit ID Numbers: EU-10
Emissions Control Equipment ID Number: CE-CS9
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-10
Emission Unit Description: DDGS Cooling Cyclone
Raw Material/Fuel: DDGS
Rated Capacity: 21 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 01-A-440-S6
567 IAC 23.3(2)"d"

(1)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 ($PM_{2.5}$)
Emission Limit(s): 1.10 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-440-S6

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.10 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-440-S6

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.10 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-440-S6
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 1.75 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-440-S6

Pollutant: Single HAP
Emission Limit(s): 0.15 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-440-S6

Pollutant: Total HAP
Emission Limit(s): 0.30 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-440-S6

Operational Requirements with Associated Monitoring and Recordkeeping

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

A. The owner or operator shall inspect and maintain the control equipment according to the manufacturer's specifications or written operation and maintenance plan.
   i. The owner or operator shall maintain records of maintenance conducted on the control equipment.

Authority for Requirement: DNR Construction Permit 01-A-440-S6

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 17.6
Stack Opening, (inches, dia.): 31 x 17
Exhaust Flow Rate (scfm): 23,800
Exhaust Temperature (°F): 100
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 01-A-440-S6

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

Monitoring Requirements

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

Stack Testing

Pollutant – Particulate Matter (PM_{10})
Stack Test to be Completed by – Once every 3 years [(1)]
Test Method - 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement – DNR Construction Permit 01-A-440-S6

Pollutant – Particulate Matter (PM) – State
Stack Test to be Completed by – Once every 3 years [(1)]
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51, Appendix M, Method 202
Authority for Requirement – DNR Construction Permit 01-A-440-S6

Pollutant – Volatile Organic Compounds (VOC) [(3)]
Stack Test to be Completed by – Once every 3 years
Test Method – 40 CFR 63, Appendix A, Method 320, or
40 CFR 60, Appendix A, Method 18
Authority for Requirement – DNR Construction Permit 01-A-440-S6

Pollutant – Single HAP
Stack Test to be Completed by – Once every 3 years [(2)] [(3)]
Test Method – 40 CFR 63, Appendix A, Method 320, or
40 CFR 60, Appendix A, Method 18
Authority for Requirement – DNR Construction Permit 01-A-440-S6

Pollutant – Total HAP
Stack Test to be Completed by – Once every 3 years [(2)] [(3)]
Test Method - 40 CFR 63, Appendix A, Method 320, or
40 CFR 60, Appendix A, Method 18
Authority for Requirement – DNR Construction Permit 01-A-440-S6

[(1)] The most recent test that demonstrated compliance with the emission limits for these pollutants was conducted on December 12, 2020. The next test shall be completed by December 12, 2023.
[(2)] Acetaldehyde, Methanol, Acrolein and Formaldehyde shall be tested under SHAP. All HAP compounds tested that test below detection limits shall be assumed to be emitting at a rate equal to the detection limit.
[(3)] The next test shall be conducted by August 27, 2022.

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV8

Associated Equipment

Associated Emission Unit ID Numbers: EU-11
Emissions Control Equipment ID Number: CE-CS10
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-11
Emission Unit Description: DDGS Storage Silo
Raw Material/Fuel: DDGS
Rated Capacity: 23 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 01-A-441-S1
567 IAC 23.3(2)"d"

(1)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 ($PM_{2.5}$)
Emission Limit(s): 0.17 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-441-S1

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.17 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-441-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.17 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-441-S1
567 IAC 23.4(7)

Operational Requirements with Associated Monitoring and Recordkeeping

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

A. The owner or operator shall inspect and maintain the control equipment according to the manufacturer's specifications or written operation and maintenance plan.
    i. The owner or operator shall maintain records of maintenance conducted on the control equipment.

Authority for Requirement: DNR Construction Permit 01-A-441-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 112
Stack Opening, (inches): 4×6
Exhaust Flow Rate (scfm): 850
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 01-A-441-S1

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

Monitoring Requirements

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

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

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

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

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

The data pertaining to the plan 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: Boilers

Associated Equipment

Associated Emission Unit ID Numbers: EU-12, EU-13, and EU-14
Emissions Control Equipment ID Number: NA
Emissions Control Equipment Description: Low NOx Burners

EP	EU	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit Number
EP-SV9	EU-12	Boiler #1	Natural Gas	81 MMBtu/hr	01-A-442-S4
EP-SV10	EU-13	Boiler #2	Natural Gas	81 MMBtu/hr	01-A-443-S4
EP-SV11	EU-14	Boiler #3	Natural Gas	81 MMBtu/hr	01-A-444-S4

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from these emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permits 01-A-442-S4, 01-A-443-S4, 01-A-444-S4
567 IAC 23.3(2)"d"

[(1)]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 ($PM_{2.5}$)
Emission Limit(s): 0.70 lb/hr
Authority for Requirement: DNR Construction Permits 01-A-442-S4, 01-A-443-S4, 01-A-444-S4

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.70 lb/hr
Authority for Requirement: DNR Construction Permits 01-A-442-S4, 01-A-443-S4, 01-A-444-S4

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.70 lb/hr; 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permits 01-A-442-S4, 01-A-443-S4, 01-A-444-S4
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permits 01-A-442-S4, 01-A-443-S4, 01-A-444-S4
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 3.24 lb/hr; 27.86 ton/yr [(2)]
Authority for Requirement: DNR Construction Permits 01-A-442-S4, 01-A-443-S4, 01-A-444-S4

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.32 lb/hr
Authority for Requirement: DNR Construction Permits 01-A-442-S4, 01-A-443-S4, 01-A-444-S4

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 3.0 lb/hr; 25.77 ton/yr [(2)]
Authority for Requirement: DNR Construction Permits 01-A-442-S4, 01-A-443-S4, 01-A-444-S4

[(2)]Combined annual emission limit requested by facility for Boiler #1, Boiler #2 and Boiler #3.

Operational Requirements with Associated Monitoring and Recordkeeping

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

A. The boiler shall use natural gas only, as the fuel source.
    i. The owner or operator shall maintain records of the type of fuel used in the boiler.
B. The total amount of natural gas combusted in all boilers (Boiler #1, Boiler #2 and Boiler #3) shall not exceed 1,350 MMscf per rolling 12-month period.
    i. The owner or operator shall maintain records of the amount of natural gas burned as fuel in Boiler #1, Boiler #2 and Boiler #3.

Authority for Requirement: DNR Construction Permits 01-A-442-S4, 01-A-443-S4, 01-A-444-S4

NSPS Applicability

These boilers are subject to 40 CFR Part 60 New Source Performance Standards (NSPS), Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, and Subpart A – General Provisions.

Authority for Requirement: DNR Construction Permits 01-A-442-S4, 01-A-443-S4, 01-A-444-S3
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"lll"
40 CFR 60 Subpart A
567 IAC 23.1(2)

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temp. (°F)	Discharge Style	Authority for Requirement Construction Permit Number
EP-SV9	32	36	30,000	410	Vertical Unobstructed	01-A-442-S4
EP-SV10	32	36	30,000	410	Vertical Unobstructed	01-A-443-S4
EP-SV11	32	36	30,000	410	Vertical Unobstructed	01-A-444-S4

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV22

Associated Equipment

Associated Emission Unit ID Numbers: EU-19

Emission Unit vented through this Emission Point: EU-19
Emission Unit Description: Emergency Diesel Generator
Raw Material/Fuel: Diesel Fuel
Rated Capacity: 1,000 kW (1340 bhp)

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% [(1)]
Authority for Requirement: DNR Construction Permit 02-A-510-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limit(s): 1.0 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-510-S4

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.0 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-510-S4

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.0 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-510-S4
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 5.50 lb/hr, 2.5 lb/MMBtu
Authority for Requirement: DNR Construction Permit 02-A-510-S4
567 IAC 23.3(3)"b"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 48.24 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-510-S4

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.86 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-510-S4

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 7.37 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-510-S4

Operational Requirements with Associated Monitoring and Recordkeeping

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

A. The owner or operator shall limit this engine to burning diesel fuel oil only.
B. The owner or operator shall combust fuel with a maximum sulfur content not to exceed 0.5% by weight in this unit.
    i. The owner or operator shall keep records demonstrating the sulfur content of the fuel. This may be done by fuel oil vendor certification or testing using the appropriate ASTM test method for each tank of fuel received.
C. The owner or operator is limited to operating his emission unit a maximum of 1,000 hours in a rolling 12-month period.
D. This engine is limited to operating for emergency situations and required testing and maintenance. In accordance with 63.6640(f), the engine is limited to operating a maximum of 100 hours per year for maintenance checks and readiness testing. This engine is not allowed to operate as a peak shaving unit.
E. In accordance with 63.6655(f), the engine shall be equipped with a non-resettable hour meter.
F. In accordance with 63.6625(e), this engine shall be operated and maintained in accordance with the manufacture's written instructions or procedures developed by the owner or operator that are approved by the manufacture. The owner or operator may only change engine setting that are permitted by the manufacture.
G. The owner or operator shall maintain the following monthly records:
    i. The total number of hours that the engine operated;
    ii. The number of hours that the engine operator for maintenance check and readiness testing; and
    iii. The rolling 12-month total amount of the time that that engine operated.
H. The owner or operator shall maintain an annual record of the number of hours that the engine operated for maintenance checks and readiness testing.
I. The owner or operator shall follow the requirements per 40 CFR §63.6640 and §63.6645 through §63.6660.

Authority for Requirement: DNR Construction Permit 02-A-510-S4

NESHAP Applicability

These boilers are subject to 40 CFR Part 63 National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

Authority for Requirement: DNR Construction Permit 02-A-510-S4
40 CFR 63 Subpart ZZZZ

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 15
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): 7,600
Exhaust Temperature (°F): 810
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 02-A-510-S4

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV Flare1

Associated Equipment

EU ID	Description	Maximum Rated Capacity	Control Equipment Description and ID
EU-20	Truck Fuel Ethanol Product Loading Rack #1	600 gal/min	Flare (CS Flare1) 2.1 MMBtu/hr
EU-20a	Truck Fuel Ethanol Product Loading Rack #2	600 gal/min	
EU-20b	Rail Fuel Ethanol Product Loading Rack	1,200 gal/min	None

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): (1)
Authority for Requirement: DNR Construction Permit 02-A-788-S9

(1) The flare shall operate with no visible emissions, except for periods not exceeding a total of 5 minutes during any 2 consecutive hours.

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-788-S9
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500ppmv
Authority for Requirement: DNR Construction Permit 02-A-788-S9
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 1.37 tons/yr (2)
Authority for Requirement: DNR Construction Permit 02-A-788-S9
(2) Limit is based on a maximum product loadout of 81.77 million gallons per year and a manufacturer's emission factor of 0.0334 lb of NOx/1000 gal product loaded.

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 23.87 tons/yr (3)
Authority for Requirement: DNR Construction Permit 02-A-788-S9
(3) VOC emissions are based on the limits included in Operating Requirements of this Title V permit.

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 3.43 tons/yr (4)
Authority for Requirement: DNR Construction Permit 02-A-788-S9
(4) Limit is based on a maximum product loadout of 81.77 million gallons per year and a manufacturer's emission factor of 0.084 lb of CO/1000 gal product loaded.

Pollutant: Acetaldehyde
Emission Limit(s): 0.05 tons/yr [(5)]
Authority for Requirement: DNR Construction Permit 02-A-788-S9

Pollutant: Total HAP
Emission Limit(s): 3.09 tons/yr [(5)]
Authority for Requirement: DNR Construction Permit 02-A-788-S9
[(5)] HAP emissions are based on the limits included in Operating Requirements of this Title V permit.

Operational Requirements with Associated Monitoring and Recordkeeping

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

Equipment Operation and Throughput Limits Requirements

A. The owner or operator shall only receive natural gasoline to be used as an ingredient or denaturant in the fuel ethanol product loaded out at Plant No. 39-11-001.
    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.

B. The total amount of fuel ethanol product loaded out at Plant No. 39-11-001 shall not exceed 81.77 million gallons per rolling 12-month period. Fuel ethanol product is defined as undenatured ethanol, denatured ethanol, and E-85.
    i. The owner or operator shall record the total amount, in gallons, of fuel ethanol product loaded out at this facility on a monthly basis.
    ii. The owner or operator shall calculate and record the total amount, in gallons, of fuel ethanol product loaded at this facility on a rolling 12-month basis.

C. The total amount of natural gasoline used as a fuel ethanol product ingredient shall not exceed 6.77 million gallons per rolling 12-month period.
    i. The owner or operator shall record the total amount, in gallons, of natural gasoline used as a fuel ethanol product ingredient on a monthly basis.
    ii. The owner or operator shall calculate and record the total amount, in gallons, of natural gasoline used as a fuel ethanol product ingredient on a rolling 12-month basis.

D. Operation at the truck loadout shall be conducted as follows:
    i. Truck loadouts may be switch-loaded, i.e., filled with fuel ethanol product when the previous tank load was gasoline.
    ii. The maximum amount of unflared fuel ethanol product loaded at the truck loadout shall not exceed 2 million gallons per rolling 12-month period.
        i. The owner or operator shall record the total amount, in gallons, of unflared fuel ethanol product loaded at the truck loadout on a monthly basis.
        ii. The owner or operator shall calculate and record the total amount, in gallons, of unflared fuel ethanol product loaded at the truck loadout on a rolling 12-month basis.

E. Operation at the truck loadout shall be conducted as follows:
    i. All rail loadouts shall be to dedicated tank railcars, i.e., no switch-loading.
    ii. Emissions from rail loadouts are not required to be controlled by the flare.
    iii. The maximum amount of fuel ethanol product loaded at the rail loadout shall not exceed 53 million gallons per rolling 12-month period.
        i. The owner or operator shall record the total amount, in gallons, of fuel ethanol product loaded at the rail loadout on a monthly basis.
        ii. The owner or operator shall calculate and record the total amount, in gallons, of fuel ethanol product loaded at the rail loadout on a rolling 12-month basis.

Control Equipment Requirements

F. The flare shall be operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

G. 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.

H. The owner or operator shall continuously verify the output of the flame detection system indicating the presence of a flame, while loading.

I. 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:
        1. The date that any inspection and/or maintenance was performed on the control equipment;
        2. Any issues identified during the inspection;
        3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
        4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 02-A-788-S9

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 1,350
Exhaust Temperature (°F): 1,400
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 02-A-788-S9

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV25

Associated Equipment

Associated Emission Unit ID Numbers: EU-23
Emissions Control Equipment ID Number: CS-CE15
Emissions Control Equipment Description: Pulse Jet Baghouse

Emission Unit vented through this Emission Point: EU-23
Emission Unit Description: General Exhaust System
Raw Material/Fuel: Corn (scalped)
Rated Capacity: 75 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 04-A-579-S1
567 IAC 23.3(2)"d"

(1)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 exceedance continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 2.82 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-579-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 2.82 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-579-S1

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

Operating Limits

A. The control equipment shall be operated and maintained per the manufacturer's instructions and specifications

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

A. Maintain a record of all maintenance and repair to the control equipment.

Authority for Requirement: DNR Construction Permit 04-A-579-S1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 113
Stack Opening, (inches, dia.): 62×62
Exhaust Flow Rate (scfm): 65,865
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 04-A-579-S1

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV29, EP-SV30, EP-SV33, EP-SV36

Associated Equipment

Associated Emission Unit ID Numbers: EU-27, EU-28, EU-32, EU-33
Emissions Control Equipment ID Numbers: CE-CS19, CE-CS20, CE-CS22, CE-CS27
Emissions Control Equipment Description: Pulse Jet Baghouse

EP	EU	Emission Unit Description	Raw Material	Rated Capacity (tons/hr)	DNR Construction Permit
EP-SV29	EU-27	Hammermill #1	Grain	28	04-A-583-S3
EP-SV30	EU-28	Hammermill #2	Grain	28	04-A-584-S2
EP-SV33	EU-32	Hammermill #3	Grain	28	10-A-066-S3
EP-SV36	EU-33	Hammermill #4	Grain	28	18-A-295-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% [(1)]
Authority for Requirement: DNR Construction Permits 04-A-583-S3, 04-A-584-S2, 10-A-066-S3, 18-A-295-S1
567 IAC 23.3(2)"d"

[(1)]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).

For Emission Points SV29, SV30, and SV33:

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limit(s): 0.39 lb/hr
Authority for Requirement: DNR Construction Permits 04-A-583-S3, 04-A-584-S2, 10-A-066-S3

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.39 lb/hr
Authority for Requirement: DNR Construction Permits 04-A-583-S3, 04-A-584-S2, 10-A-066-S3

For Emission Points SV29, SV30, SV33, and SV36:

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.39 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permits 04-A-583-S3, 04-A-584-S2, 10-A-066-S3, 18-A-295-S1
567 IAC 23.4(7)

Operational Requirements with Associated Monitoring and Recordkeeping

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

For Emission Points SV29 and SV30:

A. Maintain Baghouse according to manufacturer specifications and maintenance schedule.
   i. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of Baghouse.

Authority for Requirement: DNR Construction Permits 04-A-583-S3, 04-A-584-S2

For Emission Points SV33 and SV36:

A. The owner or operator shall inspect and maintain the baghouse (CE-CS22 & CE-CS27) according to the manufacturer's specifications and instructions and/or the facility's (Plant No. 39-11-001) Compliance Assurance Monitoring plan.

   i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-CS22 & CE-CS27). At a minimum, this log shall include:

      1. The date that any inspection and/or maintenance was performed on the baghouse;

      2. Any issues identified during the inspection;

      3. Any issues addressed during the maintenance activities and the date each issue was resolved; and

      4. Identification of the staff member performing the maintenance activities.

Authority for Requirement: DNR Construction Permit 18-A-295-S1, 10-A-066-S3

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

	Stack Height (ft, from the ground)	Stack Opening (inches)	Exhaust Flow Rate (scfm)	Exhaust Temp. (°F)	Discharge Style	Authority for Requirement
EP-SV29	7.83	24 x 26	9,000	Ambient	Vertical Unobstructed	04-A-583-S3
EP-SV30	9.25	21 x 24	9,000	Ambient	Vertical Unobstructed	04-A-584-S2
EP-SV33	21.5	24	9,000	Ambient	Vertical Unobstructed	10-A-066-S3
EP-SV36	21.3	24	12,000	Ambient	Vertical Unobstructed	18-A-295-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring (CAM) Plan for
Hammermill Baghouses (CE-CS19, CE-CS20, CE-CE22, CE-CS27)
POET Biorefining – Coon Rapids, LLC

I. Background

A. Emissions Unit

Facility:	POET Biorefining - Coon Rapids, LLC
Source ID #:	EU-27, EU-28, EU-32, EU-33
EU Description:	Hammermill #1 (EU-27), Hammermill #2 (EU-28), Hammermill #3 (EU-32), Hammermill #4 (EU-33)

B. Control Technology

Control Equipment ID:	CE-CS19, CE-CS20, CE-CS22, CE-CS27
CE Description:	Pulse Jet Baghouses
PTE before controls:	133.93 ton/yr of PM/PM10/PM2.5 (each individual hammermill)
PTE after controls:	1.69 ton/yr of PM/PM10/PM2.5 (each individual hammermill)

C. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation #:	Iowa DNR Construction Permit 04-A-583-S3, 04-584-S2, 10-A-066-S3, 18-A-285-S1
Emission Limit:	0.39 lb/hr of PM/PM10/PM2.5 (EP-SV29, EP-SV30, EP-SV33, and EP-SV36)
Monitoring Requirements:	Hammermills #1-4 (EP-SV29, EP-SV30, EP-SV33, and EP-SV36) Daily visual emissions observation

3 Monitoring Approach

A. Indicator:
   1. Visible emissions exiting the stack

B. Monitoring Approach:
   1. A trained employee will conduct a visible emissions observation on EP-SV29, EP-SV30, EP-SV33, and EP-SV36 once per calendar day when the Hammermills (#1-4) operating.

C. Indicator Range:
   1. Visible emissions indicate malfunction.

D. Performance Criteria:

Verification of operational status:

Visible emission records will be maintained for five years.

QA/QC practice and criteria:

1. Record the date and time of the observation;
2. Presence or absence of visible emissions;
3. Operator is trained to perform visible emission checks.

Monitoring frequency and data collection procedure:

1. Visible emission check on EP-SV29, EP-SV30, EP-SV33, and EP-SV36 once per day, when the Hammermills (#1-4) are operating.

Average period:

None

4 Justification

A. Background:

Particulate Matter (PM, PM10, and PM2.5) emissions from Hammermill #1 (EU-27), Hammermill #2 (EU-28), Hammermill #3 (EU-32), and Hammermill #4 (EU-33) are controlled, individually, with jet pulse baghouses (CE-CS19, CE-CS20, CE-CS22, CE-CS27, respectively). The control equipment is in operation at all times the emission units are operating to ensure compliance with PM limits

B. Rationale for Selection of Performance Indicator(s):

The performance indicator selected is a daily visible emission check on EP-SV29, EP-SV30, EP-SV33, and EP-SV36 (Hammermills #1-4). To achieve the required emission reduction, a visible emission check will be recorded daily.

C. Rationale for Selection of Indicator Level:

Zero visible emissions verify the baghouse is properly capturing and controlling PM emissions.

Emission Point ID Number: EP-SV31

Associated Equipment

Associated Emission Unit ID Numbers: EU-29
Emissions Control Equipment ID Number: CE-CS21
Emissions Control Equipment Description: Pulse Jet Baghouse

Emission Unit vented through this Emission Point: EU-29
Emission Unit Description: Pneumatic Flour Conveyor/ Receiver
Raw Material/Fuel: Flour
Rated Capacity: 85 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 04-A-979-S1
567 IAC 23.3(2)"d"

(1) 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 exceedance continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limit(s): 0.18 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-979-S1

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.18 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-979-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.18 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-979-S1
567 IAC 23.3(2)"a"

Operational Requirements with Associated Monitoring and Recording

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

A. Maintain Baghouse according to manufacturer specifications and maintenance schedule.
    i. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of Baghouse.

Authority for Requirement: DNR Construction Permit 04-A-979-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 60
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 4,300
Exhaust Temperature (°F): Ambient
Discharge Style: Obstructed Vertical
Authority for Requirement: DNR Construction Permit 04-A-979-S1

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV32

Associated Equipment

Associated Emission Unit ID Numbers: EU-31

Emission Unit vented through this Emission Point: EU-31
Emission Unit Description: Air Heater
Raw Material/Fuel: Natural Gas
Rated Capacity: 6.63 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 04-A-1006
567 IAC 23.3(2)"d"

(1)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 exceedance continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.13 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-1006

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.13 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-1006
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 04-A-1006
567 IAC 23.3(3)

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): Indoor Source
Stack Opening, (inches, dia.): NA
Exhaust Flow Rate (scfm): 65,000
Exhaust Temperature (°F): Ambient
Discharge Style: NA
Authority for Requirement: DNR Construction Permit 04-A-1006

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV34 (Centrifuge Bypass Stack)

Associated Equipment

Emission Unit	EU ID	Maximum Rated Capacity	Control Device Description and ID
Centrifuge #1	EU-15	220 gal/min	None
Centrifuge #2	EU-16	220 gal/min	
Centrifuge #3	EU-17	220 gal/min	
Centrifuge #4	EU-18	220 gal/min	
Centrifuge #5	EU-30	220 gal/min	
Corn Oil Separation System	EU-35	140 gal/min	

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 17-A-067-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 17-A-067-S2
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 5.26 lb/hr
Authority for Requirement: DNR Construction Permit 17-A-067-S2

Pollutant: Single HAP
Emission Limit(s): 0.43 lb/hr
Authority for Requirement: DNR Construction Permit 17-A-067-S2

Pollutant: Total HAP
Emission Limit(s): 0.47 lb/hr
Authority for Requirement: DNR Construction Permit 17-A-067-S2

Operational Requirements with Associated Monitoring and Recordkeeping

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

A. The owner or operator shall use Centrifuge By-Pass Stack SV34 only when the Regenerative Thermal Oxidizer (CE-CS8) is not operating.
B. The owner or operator shall use Centrifuge By-Pass Stack SV34 to vent process streams from the emission units listed under Associated Equipment of this Title V permit for no more than 500 hours per 12-month rolling period.
    i. The owner or operator shall record the number of hours that process streams were vented to Centrifuge By-Pass Stack SV34 on a monthly basis
    ii. The owner or operator shall calculate and record the number of hours that process streams were vented to Centrifuge By-Pass Stack SV34 on a rolling 12-month basis.

Authority for Requirement: DNR Construction Permit 17-A-067-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 32
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): 500
Exhaust Temperature (°F): 200
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 17-A-067-S2

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-WFB

Associated Equipment

Associated Emission Unit ID Numbers: EU-WFB

Emission Unit vented through this Emission Point: EU-WFB
Emission Unit Description: Wet Fiber Building
Raw Material/Fuel: Wet Fiber
Rated Capacity: 48 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 4.0 lb/hr; 0.10 lb/ton wet cake produced
Authority for Requirement: DNR Construction Permit 04-A-980-S2

Pollutant: Single HAP
Emission Limit(s): 0.48 lb/hr; 0.01 lb/ton wet cake produced
Authority for Requirement: DNR Construction Permit 04-A-980-S2

Pollutant: Total HAP
Emission Limit(s): 2.15 lb/hr; 0.045 lb/ton wet cake produced
Authority for Requirement: DNR Construction Permit 04-A-980-S2

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

Production Limit Requirements

A. The maximum amount of wet cake produced out at Plant No. 39-11-001 shall not exceed 100,000 tons per rolling 12-month period.
    i. The owner or operator shall record the total amount, in tons, of wet cake produced at Plant No. 39-11-001 on a monthly basis.
    ii. The owner or operator shall calculate and record the total amount, in tons, of wet cake produced at Plant No. 39-11-001 on a rolling 12-month basis.

Authority for Requirement: DNR Construction Permit 04-A-980-S2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): Vents inside Building
Stack Opening, (inches, dia.): Vents inside Building
Exhaust Flow Rate (scfm): Vents inside Building
Exhaust Temperature (°F): 100
Discharge Style: Vents inside Building
Authority for Requirement: DNR Construction Permit 04-A-980-S2

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-CT

Associated Equipment

Associated Emission Unit ID Numbers: EU-CT

Emission Unit vented through this Emission Point: EU-CT
Emission Unit Description: Cooling Tower
Raw Material/Fuel: Cooling Water
Rated Capacity: 18,500 gal/min

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-Fugitive 1

Associated Equipment

Associated Emission Unit ID Numbers: EU-Fugitive 1

Emission Unit vented through this Emission Point: EU-Fugitive 1
Emission Unit Description: Corn Receiving - Truck & Railcar
Raw Material/Fuel: Corn
Rated Capacity: 840 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-F002

Associated Equipment

Associated Emission Unit ID Numbers: EU-Fugitive 1B
Emissions Control Equipment ID Number: CE-F002
Emissions Control Equipment Description: Dust Suppression

Emission Unit vented through this Emission Point: EU-Fugitive 1B
Emission Unit Description: Haul Roads
Raw Material/Fuel: Fugitive Dust
Rated Capacity: 10,768 VMT/yr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust (Opacity)
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.
Authority for Requirement: DNR Construction Permit 07-A-1286-S3
567 IAC 23.3(2)"c"(1)

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limit(s): 8.06 ton/yr
Authority for Requirement: DNR Construction Permit 07-A-1286-S3

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 8.06 ton/yr
Authority for Requirement: DNR Construction Permit 07-A-1286-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 28.56 ton/yr
Authority for Requirement: DNR Construction Permit 07-A-1286-S3

Operational Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. 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 fugitive dust control of 80 percent, but no less frequent than once per month.
    i. The owner or operator shall keep on-site a copy of the manufacturer's specifications for achieving the minimum fugitive dust control of 80 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) is less than 35.0ºF 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 the next scheduled application day after the conditions preventing dust suppressant application have 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.

Surface Silt Content Testing Requirements

D. The owner or operator shall test a representative road for surface silt content once per quarter using an industry standard sampling method or procedure.
    i. Quarterly silt loading testing shall be completed prior to dust suppressant application for that day.
    ii. Should the quarterly test exceed 8 percent, the owner or operator shall complete silt loading testing on a monthly basis beginning the next month after the test exceeded 8 percent. Monthly testing shall continue until 3 consecutive tests are less than 8 percent, after which quarterly testing shall resume.
    iii. Provided 8 consecutive silt loading testing results demonstrate compliance with the emission limits under Applicable Requirements of this Title V permit, the owner or operator may discontinue silt sampling and may utilize an average silt loading factor. The average silt loading factor is to be calculated by averaging all silt loading sample results collected over the previous 8 quarters.
    iv. The owner or operator shall maintain records including:
        i. The date when silt loading testing occurs;
        ii. The results of the testing; and
        iii. The method used to perform the testing.

Emissions Calculations and Recordkeeping Requirements

E. The owner or operator shall record PM and PM_{10} emissions from truck traffic on a monthly basis.

F. The owner or operator shall calculate and record PM and PM_{10} 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.

G. 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_{10} and $PM_{2.5}$) emissions using the equations from AP-42, Section 13.2.2, the particulate matter (PM, PM_{10} and $PM_{2.5}$) empirical constants, a mean vehicle weight of 27.5 tons, 80 percent dust suppression, and an average of 0.25 miles per truck delivery or loadout.

$$Emissions = \frac{\left[k * \left(\frac{s}{12}\right)^a * \left(\frac{W}{3}\right)^b\right]\left[\frac{365 - P}{365}\right] * VMT * (1 - 0.80)}{2000}$$

Where *Emissions* = tons of particulate matter (PM, PM_{10} and $PM_{2.5}$) emitted during the month

VMT = Vehicle miles traveled during the month
s = road surface silt loading (%) from the most recent test
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 Table 13.2.2-2

Authority for Requirement: DNR Construction Permit 07-A-1286-S3

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-Fugitive 2

Associated Equipment

Associated Emission Unit ID Numbers: EU-Fugitive 2

Emission Unit vented through this Emission Point: EU-Fugitive 2
Emission Unit Description: Equipment Leaks
Raw Material/Fuel: Fugitive VOC
Rated Capacity: NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 5.5 ton/yr
Authority for Requirement: DNR Construction Permit 08-A-683-S1

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

Operating Limits

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.
B. The owner or operator shall follow the applicable standards of Subpart VVa, 40 CFR §60.480a through §60.489a.

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

A. Calculate and record the VOC emission 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 keep records as required in 40 CFR §60.486a, and reports as required in 40 CFR §60.487a.

Authority for Requirement: DNR Construction Permit 08-A-683-S1

NSPS Applicability

POET Biorefining-Coon Rapids 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 §60.480. However, POET Biorefining-Coon Rapids chooses to comply with the provisions of NSPS Subpart VVa, 40 CFR §60.480a to satisfy the requirements of NSPS VV. POET Biorefining-Coon Rapids is also subject to the requirements/conditions of NSPS Subpart A- *General Provisions.*

Authority for Requirement: DNR Construction Permit 08-A-683-S1
40 CFR 60 Subpart VVa
567 IAC 23.1(2)
40 CFR 60 Subpart A
567 IAC 23.1(2)"nn"

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-Fugitive 3

Associated Equipment

Associated Emission Unit ID Numbers: EU-Fugitive 3

Emission Unit vented through this Emission Point: EU-Fugitive 3
Emission Unit Description: Ethanol Rail Loading
Raw Material/Fuel: Fugitive VOC
Rated Capacity: NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

No applicable emission limits at this time.

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-Fugitive 4

Associated Equipment

Associated Emission Unit ID Numbers: EU-Fugitive 4

Emission Unit vented through this Emission Point: EU-Fugitive 4
Emission Unit Description: DDGS & Germ Product Loading
Raw Material/Fuel: DDGS
Rated Capacity: NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV12

Associated Equipment

Associated Emission Unit ID Numbers: EU-TK001

Emission Unit vented through this Emission Point: EU-TK001
Emission Unit Description: 190 Proof Ethanol Tank
Raw Material/Fuel: 190 Proof Ethanol
Rated Capacity: 180,000 gallons

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

No applicable emission limits at this time.

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

Operating Limits

A. The tank shall store material with a maximum true vapor pressure, as defined in 40 CFR §60.111b, of less than 76.6kPa.
B. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b(a)(1), and inspect as required in 40 CFR §60.113b(a).

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

A. The owner or operator shall keep readily accessible records showing the dimensions 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 of the maximum true vapor pressure of the material stored in this tank.
C. The owner or operator shall keep records as required in 40 CFR §60.110b(a) and 40 CFR §60.110b. [(1)]

Authority for Requirement: DNR Construction Permit 01-A-445-S1

[(1)] Reporting and recordkeeping requirements are contained in 40 CFR §60.115b(a) and 40 CFR §60.116b

NSPS Applicability

This unit is subject to NSPS Subpart A – General Provisions and 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.

Authority for Requirement: DNR Construction Permit 01-A-445-S1
40 CFR 60 Subpart Kb
567 IAC 23.1(2)"ddd"
40 CFR 60 Subpart A
567 IAC 23.1(2)

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): Natural Vent
Exhaust Temperature (^{o}F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 01-A-445-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV13

Associated Equipment

Associated Emission Unit ID Numbers: EU-TK002

Emission Unit vented through this Emission Point: EU-TK002
Emission Unit Description: Denaturant Tank
Raw Material/Fuel: Denaturant
Rated Capacity: 60,000 gallons

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

No applicable emission limits at this time.

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

Operating Limits

A. The tank shall store material with a maximum true vapor pressure, as defined in 40 CFR §60.111b, of less than 76.6kPa.
B. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b(a)(1), and inspect as required in 40 CFR §60.113b(a).

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

A. The owner or operator shall keep readily accessible records showing the dimensions 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 of the maximum true vapor pressure of the material stored in this tank.
C. The owner or operator shall keep records as required in 40 CFR §60.110b(a) and 40 CFR §60.110b. (1)

Authority for Requirement: DNR Construction Permit 01-A-446-S3

(1) Reporting and recordkeeping requirements are contained in 40 CFR §60.115b(a) and 40 CFR §60.116b

NSPS Applicability

This unit is subject to NSPS Subpart A – General Provisions and 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.

Authority for Requirement: DNR Construction Permit 01-A-446-S3
40 CFR 60 Subpart Kb
567 IAC 23.1(2)"ddd"
40 CFR 60 Subpart A
567 IAC 23.1(2)

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 24
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): Natural Vent
Exhaust Temperature (^{o}F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 01-A-446-S3

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV14 and EP-SV15

Associated Equipment

Associated Emission Unit ID Numbers: EU-TK003, EU-TK004

EP	EU	Emission Unit Description	Raw Material	Rated Capacity (gallons)	DNR Construction Permit
EP-SV14	EU-TK003	200 Proof Ethanol Storage Tank	200 Proof Ethanol	1,000,000	01-A-447-S3
EP-SV15	EU-TK004	200 Proof Ethanol Storage Tank	200 Proof Ethanol	1,000,000	01-A-448-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.

No applicable emission limits at this time.

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

Operating Limits

A. The tank shall store material with a maximum true vapor pressure, as defined in 40 CFR §60.111b, of less than 76.6kPa.
B. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b(a)(1), and inspect as required in 40 CFR §60.113b(a).

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

A. The owner or operator shall keep readily accessible records showing the dimensions 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 of the maximum true vapor pressure of the material stored in this tank.
C. The owner or operator shall keep records as required in 40 CFR §60.110b(a) and 40 CFR §60.110b. (1)

Authority for Requirement: DNR Construction Permit 01-A-447-S3; 01-A-448-S3

(1) Reporting and recordkeeping requirements are contained in 40 CFR §60.115b(a) and 40 CFR §60.116b

NSPS Applicability

These units are subject to NSPS Subpart A – General Provisions and 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.

Authority for Requirement: DNR Construction Permit 01-A-447-S3; 01-A-448-S3
40 CFR 60 Subpart Kb
567 IAC 23.1(2)"ddd"
40 CFR 60 Subpart A
567 IAC 23.1(2)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temp. (°F)	Discharge Style	Authority for Requirement Construction Permit Number
EP-SV14	51	10	Natural Vent	Ambient	Downward	01-A-447-S3
EP-SV15	51	10	Natural Vent	Ambient	Downward	01-A-448-S3

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV17

Associated Equipment

Associated Emission Unit ID Numbers: EU-TK006

Emission Unit vented through this Emission Point: EU-TK006
Emission Unit Description: Denaturant Tank
Raw Material/Fuel: Denaturant or 200 Proof Ethanol
Rated Capacity: 180,000 gallons

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

No applicable Requirements at this time.

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

Operating Limits

A. The tank shall store material with a maximum true vapor pressure, as defined in 40 CFR §60.111b, of less than 76.6kPa.
B. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b(a)(1), and inspect as required in 40 CFR §60.113b(a).

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

A. The owner or operator shall keep readily accessible records showing the dimensions 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 of the maximum true vapor pressure of the material stored in this tank.
C. The owner or operator shall keep records as required in 40 CFR §60.110b(a) and 40 CFR §60.110b. (1)

Authority for Requirement: DNR Construction Permit 01-A-449-S3

(1) Reporting and recordkeeping requirements are contained in 40 CFR §60.115b(a) and 40 CFR §60.116b

NSPS Applicability

This unit is subject to NSPS Subpart A – General Provisions and 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.

Authority for Requirement: DNR Construction Permit 01-A-449-S3
40 CFR 60 Subpart Kb
567 IAC 23.1(2)"ddd"
40 CFR 60 Subpart A
567 IAC 23.1(2)

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 49
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): Natural Vent
Exhaust Temperature (^{o}F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 01-A-449-S3

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-TK011

Associated Equipment

Associated Emission Unit ID Numbers: EU-TK011

Emission Unit vented through this Emission Point: EU-TK011
Emission Unit Description: Gasoline Storage Tank
Raw Material/Fuel: Gasoline
Rated Capacity: 500 gallons

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

No applicable Requirements at this time.

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

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.

Authority for Requirement: 40 CFR Part 63 Subpart CCCCCC § 63.11116

NSPS Applicability

This unit is subject to NESHAP Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities.

Authority for Requirement: 40 CFR 63 Subpart CCCCCC

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*

2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*

3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*

4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*

5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 22.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*

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

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

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

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

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:
1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
    a. The date, place and time of sampling or measurements
    b. The date the analyses were performed.
    c. The company or entity that performed the analyses.
    d. The analytical techniques or methods used.
    e. The results of such analyses; and
    f. The operating conditions as existing at the time of sampling or measurement.
    g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
    a. Comply with all terms and conditions of this permit specific to each alternative scenario.
    b. Maintain a log at the permitted facility of the scenario under which it is operating.
    c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;

b. Compliance test methods specified in 567 Chapter 25; or

c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

a. Any monitoring or testing methods provided in these rules; or

b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

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

i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and expected duration of the excess emission.

iv. The cause of the excess emission.

v. The steps being taken to remedy the excess emission.

vi. The steps being taken to limit the excess emission in the interim period.

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

i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and duration of the excess emission.

iv. The cause of the excess emission.

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

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

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

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));.
e. The changes comply with all applicable requirements.
f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,
ii. The date on which the change will occur,
iii. Any change in emission as a result of that change,
iv. The pollutants emitted subject to the emissions trade
v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
vii. Any permit term or condition no longer applicable as a result of the change.
567 IAC 22.110(1)

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

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

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

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

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

2. Minor Title V Permit Modification.

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

i. Do not violate any applicable requirement;

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;

iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

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

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

ii. The permittee's suggested draft permit;

iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

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

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

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. *567 IAC 23.2 <u>except</u> 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 9th St.
Des Moines, IA 50319-0034
(515) 725-9545

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

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

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons. *567 IAC 26.1(1)*

G32. Contacts List

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

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

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

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

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

Field Office 1
1101 Commercial Court, Suite 10
Manchester, IA 52057
(563) 927-2640

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

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

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

Field Office 5
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-0268

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

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

Linn County Public Health
Air Quality Branch
1020 6th Street SE
Cedar Rapids, IA 52401
(319) 892-6000

V. Appendix

A. 40 CFR 60 Subpart A – General Provisions
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-A

B. 40 CFR 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Dc

C. 40 CFR 60 Subpart DD – Standards of Performance for Grain Elevators
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-DD

D. 40 CFR 60 Subpart Kb Requirements – 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/current/title-40/chapter-I/subchapter-C/part-60/subpart-Kb

E. 40 CFR 60 Subpart VVa – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-VVa

F. 40 CFR Part 63 Subpart A – General Provisions.
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-A

G. 40 CFR Part 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHAP)
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ

H. 40 CFR Part 63 Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-CCCCCC