

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

Name of Permitted Facility: POET Biorefining - Gowrie

Facility Location: 1562 320th Street, Gowrie, IA 50543

Air Quality Operating Permit Number: 18-TV-008R1

Expiration Date: 3/20/2029

Permit Renewal Application Deadline: 9/20/2028

EIQ Number: 92-6963

Facility File Number: 94-02-004

Responsible Official

Name: Andrew Samp

Title: General Manager

Mailing Address: 1562 320th Street, Gowrie, IA 50543

Phone #: 515-417-3558

Permit Contact Person for the Facility

Name: Andrew Samp

Title: General Manager

Mailing Address: 1562 320th Street, Gowrie, IA 50543

Phone #: 515-417-3558

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



03/21/2024

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
DDGS.....	distiller's dried grains with solubles
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS.....	new source performance standard
ppmv	parts per million by volume
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC.....	Standard Industrial Classification
TPY.....	tons per year
USEPA.....	United States Environmental Protection Agency

Pollutants

PM.....	particulate matter
PM 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 - Gowrie

Permit Number: 18-TV-008R1

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

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP SV1	EU 1	3 Receiving Pits	04-A-497-S10
	EU 2	Grain Legs and Conveying System	
	EU 3	Grain Bin Loading (6 Bins)	
	EU DDGS Loadout	DDGS Loadout	
EP SV2	EU 4	Corn Scalper, Conveyor, Surge Bin	04-A-498-S6
EP SV3	EU 5	Hammermill #1	04-A-499-S8
EP SV4	EU 6	Hammermill #2	04-A-500-S8
EP SV5	EU 7	Hammermill #3	04-A-501-S7
EP SV6	EU 8	Hammermill #4	05-A-486-S7
EP SV22	EU 25	Hammermill #5	06-A-316-S6
EP SV7 (RTO Bypass)	EU 9	Mash Fermentation and Beer Wells	04-A-503-S9
	EU 10	Distillation (Evaporator, Strippers, 3 Molecular Sieves, Rectifier)	
EP SV9	EU 9	7 Batch Mash Fermenters and Beerwell	04-A-505-S13
	EU 10	Distillation (Evaporator, Strippers, 3 Molecular Sieves, Rectifier)	
	EU 14	Centrifuge #1	
	EU 15	Centrifuge #2	
	EU 16	Centrifuge #3	
	EU 17	Centrifuge #4	
	EU 11	DDGS Dryer 1	
	EU 12	DDGS Dryer 2	
EU 26	Corn Oil Separation System		
EP SV10	EU 19	DDGS Fluid Bed Cooler	04-A-506-S10
EP SV11	EU 20	DDGS Storage Silo	04-A-507-S3
EP SV12	EU 21	DDGS Storage Silo Bypass	04-A-508-S4
EP SV13	EU 22	Boiler #1	04-A-509-S4
EP SV20	EU 23	Boiler #2	05-A-481-S3
EP SV14	EU TK-003	Denaturant or 200 Proof Ethanol Storage Tank	04-A-510-S5
EP SV15	EU TK-001	190 Proof Ethanol Storage Tank	04-A-511-S4
EP SV16	EU TK-002	Denaturant or 200 Proof Ethanol Storage Tank	04-A-512-S6
EP SV17	EU TK-004	200 Proof Ethanol Storage Tank	04-A-513-S5
EP SV18	EU TK-005	200 Proof Ethanol Storage Tank	04-A-514-S5

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP SV21	EU 24	Diesel Generator 2000 kW	05-A-483-S4
EP SV23	EU 14	Centrifuge #1	17-A-215
	EU 15	Centrifuge #2	
	EU 16	Centrifuge #3	
	EU 17	Centrifuge #4	
EP Flare	EU3a	Truck Loadout	04-A-515-S7
	EU3b	Rail Loadout	
EP F001	EU F001	Fugitive Grain Receiving	08-A-529-S2
EP F002	EU F002	Fugitive Unpaved Roads	05-A-484-S6
EP F003	EU F003	Fugitive DDGS Loading	NA
EP F004	EU F004	Equipment Leaks	05-A-485-S3
EP F005	EU F005	Wetcake Production	NA
EP Cooling Tower	EU Cooling Tower	Cooling Tower	05-A-482-S3
EP SV24	EU 26	Corn Oil Separation System	19-A-123

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU 27	Corn Oil Storage Tank
EU F007	Railcar Venting Prior to Maintenance
EU TK-006	Syrup Tank
EU TK-007	Thin Stillage Tank
EU TK-008	Distillate Tank
EU TK-009	Corrosion Inhibitor Tank
EU TK-010	Sulfuric Acid
EU TK-011	Acetic Acid Tank (0.4 PSI)
EU TK-012	Gasoline Storage Tank
EU TK-013	Diesel Storage Tank
EU TK-014	Diesel Storage Tank
EU TK-015	Slurry Tank

II. Plant-Wide Conditions

Facility Name: POET Biorefining – Gowrie

Permit Number: 18-TV-008R1

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

Permit Duration

The term of this permit is: 5 years

Commencing on: 3/21/2024

Ending on: 3/20/2029

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 (SO₂): 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"

40 CFR 60 Subpart A Requirements

This facility is an affected source and these *General Provisions* apply to the facility. The affected units are EP SV1, EP SV2, SV7, EP SV13, EP SV14, EP SV15, EP SV16, EP SV17, EP SV18, EP SV20, EP Flare, and EP F004.

See Appendix for a link to the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

40 CFR 60 Subpart Db Requirements

This facility is subject to Standards of Performance for *Industrial Commercial Institutional Steam Generating Units*. The affected units are EP SV13 and EP SV20.

See Appendix for a link to the Standard.

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

40 CFR 60 Subpart DD Requirements

This facility is subject to *Standards of Performance for Grain Elevators*. The affected units are EP SV1 and EP SV2.

See Appendix for the link of the Standard.

Authority for Requirements: 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 EP SV14, EP SV15, EP SV16, EP SV17, and EP SV18.

See Appendix for a link to the Standard.

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

40 CFR 60 Subpart VV Requirements

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...January 5, 1981, and on or Before November 7, 2006*. To satisfy this subpart, the facility has chosen to comply with the provisions of NSPS Subpart VVa - Standards of Performance for *Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry* for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006 (40 CFR Part 60 §60.480a) in accordance with 40 CFR Part 60 §60.480(e)(2). The affected units are EP SV7, EP SV14, EP SV15, EP SV16, EP SV17, EP SV18, and EP F004.

See Appendix for a link to the Standard.

Authority for Requirements: 40 CFR 60 Subpart VVa
567 IAC 23.1(2) "nn"

40 CFR 63 Subpart ZZZZ Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for *Stationary Reciprocating Internal Combustion Engines (RICE NESHP)*. The affected unit is EP SV21.

See Appendix for a link to the Standard.

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

III. Emission Point-Specific Conditions

Facility Name: POET Biorefining – Gowrie
Permit Number: 18-TV-008R1

Emission Point ID Number: EP SV1

Associated Equipment

Associated Emission Unit ID Numbers: EU 1, EU 2, EU 3, EU DDGS Loadout
Emissions Control Equipment ID Number: CS1
Emissions Control Equipment Description: Pulse Jet Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Units vented through this Emission Point: EU 1, EU 2, EU 3, EU DDGS Loadout
Emission Unit Descriptions: 3 Receiving Pits via Truck and Rail (EU 1), Grain legs and Conveying System (EU 2), 6 Grain Bins (EU 3), DDGS Loadout
Raw Material/Fuel: Grain
Rated Capacity: EU 1: Grain Receiving; 840 TPH; Annual – 35.8 Million Bushels/yr
EU 2: Annual – 35.8 Million Bushels/yr
EU 3: Maximum Storage Capacity 2,862,000 Bushels of Grain
DDGS Loadout: 160 TPH; 280,320 TPY

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 04-A-497-S10
567 IAC 23.1(2) "ooo"

Pollutant: Fugitive Opacity
Emission Limit(s): 0%⁽¹⁾, 5%⁽²⁾
Authority for Requirement: DNR Construction Permit 04-A-497-S10
567 IAC 23.1(2) "ooo"

⁽¹⁾Fugitive limit for EU 2

⁽²⁾Fugitive limit for EU 1

Pollutant: Particulate Matter (PM_{2.5})
Emission Limit(s): 0.31 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-497-S10

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.31 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-497-S10

Pollutant: Particulate Matter (PM) - Federal
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-497-S10
567 IAC 23.1(2) "ooo"

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 0.31 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-497-S10
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 1.56 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-497-S10

Pollutant: Single Hazardous Air Pollutants (Single HAP)
Emission Limit(s): 0.13 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-497-S10

Pollutant: Total Hazardous Air Pollutants (Total HAP)
Emission Limit(s): 0.42 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-497-S10

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 facility is limited to processing the following grains: corn, sorghum and wheat.
- B. The maximum amount of grain received and/or processed at POET Biorefining – Gowrie (Plant No. 94-02-004) shall not exceed 35.80 million bushels per rolling 12-month period. The maximum amount of grain received and/or processed at Poet Biorefining – Gowrie (Plant No. 94-02-004) shall not exceed 14,280 tons per day.
 - (1) On a monthly basis, record the amount of grain received at POET Biorefining – Gowrie in bushels. Calculate and record rolling 12-month totals.

- (2) On a daily basis, record the amount of grain received at POET Biorefining – Gowrie in tons.
- C. The maximum amount of DDGS loaded out at Poet Biorefining – Gowrie (Plant No. 94-02-004) shall not exceed 280,320 tons per rolling 12-month period. The maximum amount of DDGS loaded out at Poet Biorefining – Gowrie (Plant No. 94-02-004) shall not exceed 2,730 tons per day.
 - (1) On a monthly basis, record the amount of DDGS loaded out at POET Biorefining – Gowrie in tons. Calculate and record rolling 12-month totals.
 - (2) On a daily basis, record the amount of DDGS loaded out at POET Biorefining – Gowrie in tons.
- D. The owner or operator shall maintain the Pulse Jet Baghouse (CE CS1) in accordance with the manufacturer’s specifications and maintenance schedule. The owner or operator shall maintain a record of all inspections and maintenance conducted on the control equipment. This record shall include, but is not limited to:
 - (1) The date any inspection and/or maintenance was performed on the control equipment;
 - (2) Any issues identified during the inspection; and,
 - (3) Any issues addressed during the maintenance activities.
- E. The owner or operator shall conduct a visible emissions observation on EP SV1 once per calendar week.
 - (1) If the owner or operator observes visible emissions from EP SV1, the owner or operator shall investigate the emission units or control equipment and make corrections to the associated operations or equipment. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the emission units are not in operation.
- F. The Pulse Jet Baghouse (CE CS1) differential pressure drop shall be maintained between 0.1 to 7 inches water column.
 - (1) The owner or operator shall properly operate and maintain equipment to continuously monitor the differential pressure drop across the baghouse. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer’s recommendations, instructions, and operating manuals.
 - (2) The owner or operator shall collect and record the pressure drop across the baghouse, in inches of water, once per calendar day. If the pressure drop across the baghouse falls outside the range specified in Condition F., the owner or operator shall investigate the baghouse and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the baghouse is not in operation.
- G. The owner or operator is required to lock-out aeration fan during the loading of Grain Bins (EU 3) and shall continue to operate the system under negative pressure (vent emissions through Pulse Jet Baghouse) for a minimum of 30 minutes after loading of Grain Bins (EU 3) has been completed.

Authority for Requirement: DNR Construction Permit 04-A-497-S10

New Source Performance Standards (NSPS)

The following subparts apply to EU 1 and EU 2 in this permit:

This facility is subject to the New Source Performance Standard (NSPS) Subpart DD: Grain Elevators (40 CFR §60.300 – §60.304; 567 IAC 23.1(2)"ooo") and Subpart A: General Provisions (40 CFR §60.1 – §60.19).

Authority for Requirement: DNR Construction Permit 04-A-497-S10
567 IAC 23.1(2) "ooo"
40 CFR Part 60, Subpart A & Subpart DD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 110
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 18,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 04-A-497-S10

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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 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 SV2

Associated Equipment

Associated Emission Unit ID Numbers: EU4
Emissions Control Equipment ID Number: CS2
Emissions Control Equipment Description: Pulse Jet Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU4
Emission Unit Description: Grain Handling: Corn Scalper, Conveyor, Surge Bin
Raw Material/Fuel: Corn
Rated Capacity: 140 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 04-A-498-S6
567 IAC 23.1(2)"ooo"

Pollutant: Fugitive Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 04-A-498-S6
567 IAC 23.1(2)"ooo"

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.04 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-498-S6

Pollutant: Particulate Matter (PM) - Federal
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-498-S6
567 IAC 23.1(2)"ooo"

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 0.04 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-498-S6
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 Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 facility is limited to processing the following grains: corn, sorghum and wheat.
- B. The maximum amount of grain processed at Poet Biorefining – Gowrie (Plant No. 94-02-004) shall not exceed 35.80 million bushels per rolling 12-month period.
 - i. On a monthly basis, record the amount of grain received at POET Biorefining – Gowrie in bushels. Calculate and record rolling 12-month totals.
- C. The owner or operator shall maintain the Pulse Jet Baghouse (CE CS2) in accordance with the manufacturer’s specifications and maintenance schedule. The owner or operator shall maintain a record of all inspections and maintenance conducted on the control equipment. This record shall include, but is not limited to:
 - a. The date any inspection and/or maintenance was performed on the control equipment;
 - b. Any issues identified during the inspection; and,
 - c. Any issues addressed during the maintenance activities.
- D. The owner or operator shall conduct a visible emissions observation on EP SV2 once per calendar week.
 - i. If the owner or operator observes visible emissions from EP SV2, the owner or operator shall investigate the emission units or control equipment and make corrections to the associated operations or equipment. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the emission units are not in operation.
- E. The Pulse Jet Baghouse (CE CS2) differential pressure drop shall be maintained between 0.1 to 7 inches water column.
 - i. The owner or operator shall properly operate and maintain equipment to continuously monitor the differential pressure drop across the baghouse. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer’s recommendations, instructions, and operating manuals.
 - ii. The owner or operator shall collect and record the pressure drop across the baghouse, in inches of water, once per calendar day. If the pressure drop across the baghouse falls outside the range specified in Condition E., the owner or operator shall investigate the baghouse and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the baghouse is not in operation.

Authority for Requirement: DNR Construction Permit 04-A-498-S6

New Source Performance Standards (NSPS)

This facility is subject to the New Source Performance Standard (NSPS) Subpart DD: Grain Elevators (40 CFR §60.300 – §60.304; 567 IAC 23.1(2)"ooo") and Subpart A: General Provisions (40 CFR §60.1 – §60.19).

Authority for Requirement: DNR Construction Permit 04-A-498-S6
567 IAC 23.1(2) "ooo"
40 CFR Part 60, Subpart A & Subpart DD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 76
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 2,500
Exhaust Temperature (°F): 70
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 04-A-498-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 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 Numbers: EP SV3, EP SV4, EP SV5, EP SV6, EP SV22

Associated Equipment

EP	EU	Emissions Control Equipment ID Number	Emissions Control Equipment Description	Continuous Emissions Monitors ID Numbers	Construction Permit Number
EP SV3	EU5	CS3	Pulse Jet Baghouse	None	04-A-499-S8
EP SV4	EU6	CS4			04-A-500-S8
EP SV5	EU7	CS5			04-A-501-S8
EP SV6	EU8	CS6			05-A-486-S7
EP SV22	EU 25	CS23			06-A-316-S6

EP	EU Vented Through EP	Emissions Unit Description	Raw Material/Fuel	Rated Capacity (tons/hr)
EP SV3	EU5	Hammermill #1	Grain	25 TPH (each)
EP SV4	EU6	Hammermill #2		
EP SV5	EU7	Hammermill #3		
EP SV6	EU8	Hammermill #4		
EP SV22	EU 25	Hammermill #5		

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permits 04-A-499-S8, 04-A-500-S8, 04-A-501-S8, 05-A-486-S7, 06-A-316-S6
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.26 lb/hr

Authority for Requirement: DNR Construction Permits 04-A-499-S8, 04-A-500-S8, 04-A-501-S8, 05-A-486-S7, 06-A-316-S6

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.26 lb/hr

Authority for Requirement: DNR Construction Permits 04-A-499-S8, 04-A-500-S8,
04-A-501-S8, 05-A-486-S7, 06-A-316-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.26 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 04-A-499-S8, 04-A-500-S8,
04-A-501-S8, 05-A-486-S7, 06-A-316-S6
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 Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 facility is limited to processing the following grains: corn, sorghum and wheat.
 - (1) On a monthly basis, record the amount and the type of grain processed in the hammermills in bushels. Should grain other than corn be processed, calculate and record the monthly average percentage of other grains processed.
 - (2) If this hammermill processes more than 30% sorghum (by weight) or more than 10% wheat (by weight), the facility shall notify the Department within five working days.

- B. The maximum amount of grain processed at Poet Biorefining – Gowrie (Plant No. 94-02-004) shall not exceed 35.80 million bushels per rolling twelve-month period.
 - (1) On a monthly basis, record the amount of grain processed at POET Biorefining – Gowrie in bushels. Calculate and record rolling twelve-month totals.

- C. The owner or operator shall maintain the Pulse Jet Baghouses (CE's CS3, CS4, CS5, CS6, and CS23) in accordance with the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a record of all inspections and maintenance conducted on the control equipment. This record shall include, but is not limited to:
 - (1) The date any inspection and/or maintenance was performed on the control equipment;
 - (2) Any issues identified during the inspection; and,
 - (3) Any issues addressed during the maintenance activities.

- D. The owner or operator shall conduct a visible emissions observation on EP's SV3, SV4, SV5, SV6, and SV22 once per calendar week.
 - (1) If the owner or operator observes visible emissions from EP's SV3, SV4, SV5, SV6, and SV22, the owner or operator shall investigate the emission units or control

equipment and make corrections to the associated operations or equipment. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the emission units are not in operation.

- E. The Pulse Jet Baghouses (CE's CS3, CS4, CS5, CS6, and CS23) differential pressure drop shall be maintained between 0.1 to 7 inches water column for each baghouse.
- (1) The owner or operator shall properly operate and maintain equipment to continuously monitor the differential pressure drop across the baghouses. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
 - (2) The owner or operator shall collect and record the pressure drop across the baghouses, in inches of water, once per calendar day. If the pressure drop across any of the baghouses falls outside the range specified in Condition E., the owner or operator shall investigate the baghouse and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the baghouse is not in operation.

Authority for Requirement: DNR Construction Permits 04-A-499-S8, 04-A-500-S8, 04-A-501-S8, 05-A-486-S7, 06-A-316-S6

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20.58

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 12,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 04-A-499-S8, 04-A-500-S8, 04-A-501-S8, 05-A-486-S7, 06-A-316-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 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Pollutant - PM

Stack Test Completed On – 11/21/2023⁽¹⁾

Test Method – 40 CFR 60, Appendix A, Method 5, 40 CFR 51, Appendix M, Method 202

Authority for Requirement – DNR Construction Permits 04-A-499-S7, 04-A-500-S7, 04-A-501-S7, 05-A-486-S6, 06-A-316-S5

⁽¹⁾Initial performance testing may be conducted on one of the five emission points (EP's SV3, SV4, SV5, SV6, or SV22). The results of the test shall be considered representative of the five emission points. If the tested emission point indicates non-compliance, the facility will be considered in violation of the emission limits set for the other emission points, or they may be tested independently to verify compliance.

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP SV7 (RTO Bypass)

Associated Equipment

Associated Emission Unit ID Numbers: EU9, EU 10

Emissions Control Equipment ID Numbers: CS7, CS11

Emissions Control Equipment Description: Scrubber, Regenerative Thermal Oxidizer

Continuous Emissions Monitors ID Numbers: None

<u>Emission Unit ID</u>	<u>Emissions Unit Description</u>	<u>Raw Material/Fuel</u>	<u>Max Storage Capacity</u>	<u>Max Capacity</u>	<u>Control Equipment</u>
EU 9	Fermenter #1 Fermenter #2 Fermenter #3 Fermenter #4 Fermenter #5 Fermenter #6 Fermenter #7	Corn Mash	730,000 gallons each	Mash loading rate 1,300 gallons per minute	Scrubber (CE CS7)
	Beerwell	Beer	889,000 gallons	1,100 GPM	
EU 10	Distillation (Evaporator, Strippers, 3 Molecular Sieves, Rectifier)	Beer		Beer feedrate 1,100 gallons per minute	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-503-S9
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.20 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-503-S9

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-503-S9
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 32.30 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-503-S9

Pollutant: Single Hazardous Air Pollutants (Single HAP)
Emission Limit(s): 7.87 lb/hr, 1.97 tons/yr
Authority for Requirement: DNR Construction Permit 04-A-503-S9

Pollutant: Total Hazardous Air Pollutants (Total HAP)
Emission Limit(s): 8.0 lb/hr, 2.0 tons/yr
Authority for Requirement: DNR Construction Permit 04-A-503-S9

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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. Emissions from the Fermentation (EU9) and Distillation (EU 10) units may bypass the thermal oxidizer for a maximum of 500 hours per rolling twelve-month period.
 - i. The owner or operator shall record the number of hours that the emissions from the Fermentation (EU9) and Distillation (EU 10) units bypass the thermal oxidizer on a monthly basis. Calculate and record the rolling twelve-month totals.
- B. The owner or operator shall maintain the Scrubber (CS7) according to the manufacturer's specifications and maintenance schedule.
 - i. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the Scrubber (CS7).

- C. Any additive added to the scrubber liquid during a compliance test to enhance the efficiency of the scrubber shall be added at a rate greater than or equal to the rate recorded during a previous performance test that demonstrated compliance with all applicable emission limitations.
 - i. The owner or operator shall record the rate of additive added (additive feed rate) to the scrubber liquid on a continuous basis. If the additive feed rate deviates below the rate required (i.e., additive feed rate during a previous performance test that demonstrated compliance), then record the time, date and actions taken to correct the situation and also when the additive feed rate is greater than or equal to the required additive feed rate.

Authority for Requirement: DNR Construction Permit 04-A-503-S9

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 11,320

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 04-A-503-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 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Compliance Demonstration(s)

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
VOC	Stack test	One-time ⁽¹⁾	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
Total HAP	Stack test	One-time ⁽¹⁾	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18

Single HAP ⁽²⁾	Stack test	One-time ⁽¹⁾	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
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⁽¹⁾ Performance testing shall be required with the thermal oxidizer (RTO) bypassed should the facility exceed 400 hours of operation in RTO bypass mode in any twelve-month rolling period. This test shall be conducted within 180 days after the facility has exceeded 400 hours in RTO bypass mode in any twelve-month rolling period.

⁽²⁾ Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically. With the exception of acrolein, acetaldehyde, formaldehyde and methanol, any HAP whose emissions are below the detection limit shall be assumed to be zero.

Authority for Requirement – DNR Construction Permit 04-A-503-S9

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP SV9

Associated Equipment

Associated Emission Unit ID Numbers: EU9, EU 10, EU 11, EU 12, EU 14, EU 15, EU 16, EU 17, EU 26

Emissions Control Equipment ID Numbers: CS7, CS9, CS10, CS11

Emissions Control Equipment Description: Scrubber, Multi-cyclone, Regenerative Thermal Oxidizer (30 MMBtu/hr)

Continuous Emissions Monitors ID Numbers: None

<u>Emission Unit ID</u>	<u>Emission Unit Description</u>	<u>Max Storage Capacity</u>	<u>Max Rated Capacity</u>	<u>Control Equipment</u>
EU 9	Fermenter #1	730,000 gallons each	Mash loading rate: 1,300 gallons per minute. (RTO = 30 MMBtu/hr)	Scrubber (CE CS7), Regenerative Thermal Oxidizer (CS11)
	Fermenter #2			
	Fermenter #3			
	Fermenter #4			
	Fermenter #5			
	Fermenter #6			
	Fermenter #7			
	Beerwell	889,000 gallons	1,100 GPM	
EU 10	Distillation (Evaporator, Strippers, 3 Molecular Sieves, Rectifier)	N/A	Beer feedrate: 1,100 gallons per minute	
EU 14, EU 15, EU 16, EU 17	Centrifuge #1, Centrifuge #2, Centrifuge #3, Centrifuge #4	N/A	Each: 350 gallons per minute of whole stillage	Regenerative Thermal Oxidizer (CS11)
EU 26	Corn Oil Separation System	N/A	170 gallon/minute	
EU 11	DDGS Dryer 1	N/A	Each: 32 tons of DDGS per hour; 60 MMBtu per hour	Multi Cyclone (CS9), Regenerative Thermal Oxidizer (CS11)
EU 12	DDGS Dryer 2			Multi Cyclone (CS10), Regenerative Thermal Oxidizer (CS11)

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-505-S13
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 16.50 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-505-S13

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 16.50 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-505-S13

Pollutant: Particulate Matter (PM)

Emission Limit(s): 16.50 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-505-S13
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 04-A-505-S13

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 14.39 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-505-S13

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 12.72 lb/hr, 35.51 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 04-A-505-S13

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 16.88 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-505-S13

Pollutant: Single Hazardous Air Pollutants (Single HAP)

Emission Limit(s): 0.81 lb/hr, 1.11 lbs/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 04-A-505-S13

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): 2.0 lb/hr, 2.42 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 04-A-505-S13

⁽²⁾ HAP emission limits established in project 15-024 to reduce potential emissions of POET Biorefining-Gowrie. This limit applies only during scrubber bypass operations (i.e., the exhaust bypasses the scrubber and vents directly to the RTO) and for a maximum of 150 hours per 12-month rolling period.

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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. Regenerative Thermal Oxidizer (CS11):

- (1) The owner or operator shall maintain a 3-hour average operating temperature of no less than 50 degrees Fahrenheit below the average operating temperature of Regenerative Thermal Oxidizer (CS11) recorded during the most recent performance test that demonstrated compliance with the emission limits specified in the Emission Limits section above.
 - a. The owner or operator shall properly operate and maintain equipment to continuously monitor the temperature of the Thermal Oxidizer. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per a written facility-specific operation and maintenance plan.
 - b. The owner or operator shall keep hourly records of the operating temperature (degrees Fahrenheit) and record all three-hour periods (during actual operations) of the average operating temperature of Regenerative Thermal Oxidizer (CS11).
 - c. The owner or operator shall record all periods (during actual operations) where the 3-hour average temperature is less than 50 degrees Fahrenheit below the average temperature recorded during the most recent performance test which demonstrated compliance with the VOC and HAP emission limits.
- (2) The owner or operator shall operate the Regenerative Thermal Oxidizer (CS11) at all times the dryers and/or non-bypassed fermentation equipment is used.
- (3) The owner or operator shall keep records of the frequency and amount of time the Regenerative Thermal Oxidizer (CS11) malfunctions and record estimates of emissions during said malfunctions.

B. Fuel:

- (1) The owner or operator shall combust only natural gas in DDGS Dryers (EU11, EU12) and Regenerative Thermal Oxidizer (CS11).

C. Scrubber (CS7):

- (1) The Scrubber (CE CS7) shall maintain an average pressure drop across the wet scrubber that is between 0.5 and 12 inches water column based on a 12-hour averaging period. The owner or operator shall establish an alarm setting for the purpose of initiating corrective action based on a pressure drop across the wet scrubber of less than 0.5 inch water column or a pressure drop across the wet scrubber of greater than 12 inches water column. This requirement shall not apply on the days that the scrubber is not in operation.
 - a. The owner or operator shall record the scrubber pressure drop in inches of water column on a continuous basis.
 - b. The owner or operator shall calculate and record the average pressure drop across the scrubber based on a 12-hour period. The average pressure drop shall be expressed and recorded as the average of all pressure drop data measured during each 12-hour period.
 - c. If the pressure drop deviates outside the range specified in Condition C.(1), the owner or operator shall investigate the scrubber and make corrections to the scrubber. The owner or operator shall maintain a record of all corrective actions taken.
- (2) The Scrubber (CE CS7) shall have a minimum scrubber liquid (water) flow rate equal to or greater than flow rate recorded during the most recent stack test that demonstrated compliance with the emission limits as specified in Emission Limits section above.
 - a. The owner or operator shall record the scrubber liquid (water) flow rate in gallons per minute on a continuous basis.
 - b. If the flow rate deviates below the minimum flow rate required then record the time, date and actions taken to correct the situation and when the flow rate is back above the minimum flow rate required.
- (3) The owner or operator shall enhance the efficiency of the scrubber using any additive added at a rate greater than or equal to the rate recorded during a previous performance test that demonstrated compliance with applicable emission limits specified in Permit Condition 1. The owner or operator shall continue to use the additive type that demonstrated compliance with all applicable emissions limits as specified in the Emission Limits section above.
 - a. The owner or operator shall record the type of additive used to demonstrate compliance with the applicable emission limits as specified in the Emission Limits section above.
 - b. The owner or operator shall record the rate of additive added (additive feed rate) to the scrubber liquid on a continuous basis. If the additive feed rate deviates below the rate required (i.e., additive feed rate during a previous performance test that demonstrated compliance), then record the time, date and actions taken to correct the situation and also when the additive feed rate is greater than or equal to the required additive feed rate.

D. Scrubber (CS7) Bypass:

- (1) The owner or operator shall bypass the Scrubber (CS7) for a maximum of 150 hours per twelve month rolling period. This condition applies when the wet scrubber (CE CS7) is shut down for maintenance or similar activities. If the Scrubber (CS7) is bypassed, the emissions must be vented through the Regenerative Thermal Oxidizer (CS11).
 - a. The owner or operator shall monthly record the number of hours these emission units are operated without being controlled by the scrubber (CS7). Calculate and record rolling 12-month totals.

E. General Conditions:

- (1) The owner or operator shall operate and maintain the Scrubber (CE CS7), Multi Cyclone (CE CS10), and Regenerative Thermal Oxidizer (CE CS11) according to the manufacturer specifications and maintenance schedule. The owner or operator shall conduct an inspection of the emission units and the associated control equipment at a minimum of once per year and correct/repair any issues discovered during the inspection. The owner or operator shall maintain a log of all inspections and maintenance activities performed on the emission units and the associated control equipment. This log shall include, but is not necessarily limited to:
 - a. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;
 - b. Any issues identified during the inspection and the date each issue was resolved; and,
 - c. Any issues addressed during the maintenance activities and the date each issue was resolved.
- (2) The owner or operator shall maintain onsite a copy of the most recent performance test(s) that demonstrated compliance with the emission limits in the Emission Limits section above along with the recorded Regenerative Thermal Oxidizer (CE CS11) operating temperature and the recorded Scrubber (CE CS7) pressure drop, liquor flow rate, and liquid additive feed rate.

Authority for Requirement: DNR Construction Permit 04-A-505-S13

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 100
- Stack Opening, (inches, dia.): 76
- Exhaust Flow Rate (acfm): 83,000
- Exhaust Temperature (°F): 320
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 04-A-505-S13

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 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Compliance Demonstration(s)

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
PM – State	Stack Testing	Once every 3 years ⁽¹⁾	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
NO _x	Stack Testing	Once every 3 years ⁽²⁾	1 hour	40 CFR 60, Appendix A, Method 7E
VOC ⁽³⁾	Stack Testing ^(4,5)	Once every 3 years ⁽¹⁾	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
CO	Stack Testing	Once every 3 years ⁽²⁾	1 hour	40 CFR 60, Appendix A, Method 10
Single HAP ⁽⁶⁾	Stack Testing ^(4,5)	Once every 3 years ⁽¹⁾	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
Total HAP ⁽⁶⁾	Stack Testing	Once every 3 years	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18

¹ Stack testing shall be conducted once every three years with a minimum of six (6) months between testing. If a stack test exceeds 90% of appropriate emission limitation, then testing shall revert to annual until four (4)

consecutive tests are less than 90% of the appropriate emissions limitation. The facility shall use those tests that demonstrate compliance with the permitted emission limits in permit Condition 1 to establish the RTO operating temperature, scrubber water flow rate, and the additive feed rate. The next stack test shall be completed in the months of June, July, or August and completed no later than August 31, 2024.

² Performance testing shall be conducted once every three years. The next stack test shall be completed no later than August 31, 2024. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits with all equipment operating in a worst-case scenario. The stack test for NOx and CO shall be conducted simultaneously.

³ VOC compliance may be determined using the sum of the Method 320 or Method 18 results.

⁴ Additional performance testing shall be required with the scrubber bypassed should the facility exceed 90 hours of operation in scrubber bypass mode in any twelve-month rolling period. This test shall be conducted within twelve months after the facility has exceeded the 90 hours of scrubber bypass operation.

⁵ Additional performance testing will be triggered after each of the following:

- After the facility processes, by weight, more than 30% sorghum in the hammermills, based on monthly throughput.
- After the facility processes, by weight, more than 10% wheat in the hammermills, based on monthly throughput.

⁶ Acetaldehyde, acrolein, formaldehyde, and methanol shall be tested for specifically. With the exception of acetaldehyde, acrolein, formaldehyde, and methanol, any HAP whose emissions are below the detection limit shall be assumed to be zero.

Authority for Requirement: DNR Construction Permit 04-A-505-S13

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

(Construction Permit requirements meet minimum CAM requirements; an additional CAM Plan is not required)

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP SV10

Associated Equipment

Associated Emission Unit ID Numbers: EU 19
Emissions Control Equipment ID Number: CS12
Emissions Control Equipment Description: Pulse Jet Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU 19
Emission Unit Description: DDG Fluid Bed Cooler
Raw Material/Fuel: DDG (distiller's dried grains with solubles)
Rated Capacity: 30 Tons of DDG 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): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 04-A-506-S10
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM_{2.5})
Emission Limit(s): 0.70 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-506-S10

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.70 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-506-S10

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.70 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-506-S10
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 6.70 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-506-S10

Pollutant: Single Hazardous Air Pollutants (Single HAP)
Emission Limit(s): 0.45 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-506-S10

Pollutant: Total Hazardous Air Pollutants (Total HAP)
Emission Limit(s): 0.82 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-506-S10

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 facility is limited to a maximum production/processing of 280,320 tons of dry DDGS per twelve month rolling period plant wide.
 - i. On a monthly basis, the owner or operator shall keep records of the amount of dry DDGS produced/processed plantwide in tons. Calculate and record the rolling 12-month totals.
 - ii. On a monthly basis, the owner or operator shall calculate the record the rolling 12-month totals.
- B. The owner or operator shall conduct a visible emissions observation on EP SV12 once per calendar week.
 - i. If the owner or operator observes visible emissions from EP SV12, the owner or operator shall investigate the emission units or control equipment and make corrections to the associated operations or equipment.
 - ii. The owner or operator shall maintain a record of all corrective actions taken.
 - iii. This requirement shall not apply on the days that the emission units are not in operation.
- C. The Pulse Jet Baghouse (CE CS12) differential pressure drop shall be maintained between 0.1 to 7 inches water column.
 - i. The owner or operator shall properly operate and maintain equipment to continuously monitor the differential pressure drop across the baghouse. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer’s recommendations, instructions, and operating manuals.
 - ii. The owner or operator shall collect and record the pressure drop across the baghouse, in inches of water, once per calendar day. If the pressure drop across the baghouse falls outside the range specified in Condition D., the owner or operator shall investigate the baghouse and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken.

- iii. This requirement shall not apply on the days that the baghouse is not in operation.
- D. The owner or operator shall maintain the Pulse Jet Baghouse (CE CS12) in accordance with the manufacturer's specifications and maintenance schedule. The facility shall maintain a record of all inspections and maintenance conducted on the control equipment. This record shall include, but is not limited to:
 - a. The date any inspection and/or maintenance was performed on the control equipment;
 - b. Any issues identified during the inspection and the date each issue was resolved; and
 - c. Any issues identified during the maintenance activities and the date each issue was resolved.

Authority for Requirement: DNR Construction Permit 04-A-506-S10

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 60.6

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 20,000

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 04-A-506-S10

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Compliance Demonstration(s)

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
VOC ⁽¹⁾	Stack Test	Once every 3 years ⁽²⁾	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
Single HAP ⁽³⁾	Stack Test	Once every 3 years ⁽²⁾	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18

Total HAP ⁽³⁾	Stack Test	Once every 3 years ⁽²⁾	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
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¹ VOC compliance may be determined using the sum of the Method 320 or Method 18 results.

² Performance testing shall be conducted once every three years beginning calendar year 2017. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits with all equipment operating. Testing shall be completed during the months of June, July or August. The last test was completed 8/15/2023.

³ Acetaldehyde, acrolein, formaldehyde, and methanol shall be tested for specifically. With the exception of acetaldehyde, acrolein, formaldehyde, and methanol, any HAP whose emissions are below the detection limit shall be assumed to be zero.

Authority for Requirement – DNR Construction Permit 04-A-506-S10

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

(Construction Permit requirements meet minimum CAM requirements; an additional CAM Plan is not required)

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP SV11

Associated Equipment

Associated Emission Unit ID Numbers: EU 20
Emissions Control Equipment ID Number: CS13
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU 20
Emission Unit Description: DDGS Storage Silo
Raw Material/Fuel: DDGS
Rated Capacity: 30 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): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-507-S3
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.07 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-507-S3

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.07 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-507-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.07 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-507-S3
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 1.29 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-507-S3

Pollutant: Single Hazardous Air Pollutants (Single HAP)
Emission Limit(s): 0.03 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-507-S3

Pollutant: Total Hazardous Air Pollutants (Total HAP)
Emission Limit(s): 0.10 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-507-S3

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 maintain the Baghouse (CE CS13) in accordance with the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a record of all inspections and maintenance conducted on the control equipment. This record shall include, but is not limited to:
 - a. The date any inspection and/or maintenance was performed on the control equipment;
 - b. Any issues identified during the inspection; and,
 - c. Any issues addressed during the maintenance activities.
- B. The owner or operator shall conduct a visible emissions observation on EP SV13 once per calendar week.
 - i. If the owner or operator observes visible emissions from EP SV13, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated operations or equipment. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the emission unit is not in operation.
- C. The Baghouse (CE CS13) differential pressure drop shall be maintained between 0.1 to 7 inches water column.
 - i. The owner or operator shall properly operate and maintain equipment to continuously monitor the differential pressure drop across the baghouse. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
 - ii. The owner or operator shall collect and record the pressure drop across the baghouse, in inches of water, once per calendar day. If the pressure drop across the baghouse falls outside the range specified in Condition C., the owner or operator shall investigate the baghouse and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the baghouse is not in operation.

Authority for Requirement: DNR Construction Permit 04-A-507-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 18

Exhaust Flow Rate (scfm): 4,000

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 04-A-507-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 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 SV12

Associated Equipment

Associated Emission Unit ID Numbers: EU 21
Emissions Control Equipment ID Number: CS14
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU 21
Emission Unit Description: DDGS Storage Silo Bypass
Raw Material/Fuel: DDGS
Rated Capacity: 30 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): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-508-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): 0.07 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-508-S4

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.07 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-508-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.07 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-508-S4
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 1.29 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-508-S4

Pollutant: Single Hazardous Air Pollutants (Single HAP)
Emission Limit(s): 0.03 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-508-S4

Pollutant: Total Hazardous Air Pollutants (Total HAP)
Emission Limit(s): 0.10 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-508-S4

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 maintain the Baghouse (CE CS14) in accordance with the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a record of all inspections and maintenance conducted on the control equipment. This record shall include, but is not limited to:
 - a. The date any inspection and/or maintenance was performed on the control equipment;
 - b. Any issues identified during the inspection; and,
 - c. Any issues addressed during the maintenance activities.
- B. The owner or operator shall conduct a visible emissions observation on EP SV12 once per calendar week.
 - i. If the owner or operator observes visible emissions from EP SV12, the owner or operator shall investigate the emission units or control equipment and make corrections to the associated operations or equipment. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the emission units are not in operation.
- C. The Baghouse (CE CS14) differential pressure drop shall be maintained between 0.1 to 7 inches water column.
 - i. The owner or operator shall properly operate and maintain equipment to continuously monitor the differential pressure drop across the baghouse. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

- ii. The owner or operator shall collect and record the pressure drop across the baghouse, in inches of water, once per calendar day. If the pressure drop across the baghouse falls outside the range specified in Condition C., the owner or operator shall investigate the baghouse and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the baghouse is not in operation.

Authority for Requirement: DNR Construction Permit 04-A-508-S4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 76

Stack Opening, (inches, dia.): 18

Exhaust Flow Rate (scfm): 4,000

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 04-A-508-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 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, EP SV20

Associated Equipment

Associated Emission Unit ID Numbers: EU 22, EU 23
Emissions Control Equipment ID Number: CE CS24, CE CS25
Emissions Control Equipment Description: Low NO_x Burners
Continuous Emissions Monitors ID Numbers: None

Emission Units vented through these Emission Points: EU 22, EU 23
Emission Unit Description: Boiler 1, Boiler 2
Raw Material/Fuel: Natural Gas
Rated Capacity: 143 MMBtu/hr (each)

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permits 04-A-509-S4, 05-A-481-S3
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.10 lb/hr

Authority for Requirement: DNR Construction Permits 04-A-509-S4, 05-A-481-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.10 lb/hr; 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permits 04-A-509-S4, 05-A-481-S3
567 IAC 23.3(2) "b"(3)

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 6.26 lb/hr; 0.1 lb/MMBtu ⁽²⁾

Authority for Requirement: DNR Construction Permits 04-A-509-S4, 05-A-481-S3
567 IAC 23.1(2) "ccc"

⁽²⁾ As specified in 40 CFR Subpart Db 60.44b(a)(1)(i). As specified in 40 CFR 60.44b(h), NO_x standard applies at all time including periods of startup, shutdown and malfunction. As specified in 40 CFR 60.44b(i), compliance with NO_x standards is determined on a 30-day rolling average basis.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.77 lb/hr

Authority for Requirement: DNR Construction Permits 04-A-509-S4, 05-A-481-S3

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 5.0 lb/hr

Authority for Requirement: DNR Construction Permits 04-A-509-S4, 05-A-481-S3

NSPS Applicability

These emission points are subject to New Source Performance Standards (NSPS) Subpart Db - Standards of Performance for *Industrial-Commercial-Institutional Steam Generating Units*.

These units are also subject to the requirements/conditions of NSPS Subpart A-*General Provisions*.

Authority for Requirement: 40 CFR 60, Subpart A & Subpart Db

DNR Construction Permits 04-A-509-S4, 05-A-481-S3

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 combust natural gas only in these emission units.
- B. The owner or operator shall follow the applicable standards of Subpart Db, 40 CFR 60.40b through 60.49b.
- C. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day, and calculate the annual capacity factor on a 12 month rolling average basis with a new annual capacity factor calculated at the end of each calendar month, as required in 40 CFR 60.49b(d). The annual capacity factor is defined as the ratio between the actual heat input to a steam generating unit during a calendar year, and the potential heat input had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.
- D. The owner or operator shall maintain records of the following information from each steam generating unit operating day, as required in 40 CFR 60.49b(g). This information shall also be submitted in a report, as required in 40 CFR 60.49b(i).
 - i. Calendar date.
 - ii. Average hourly nitrogen oxides emission (as NO₂) rates measured or predicted.
 - iii. 30-day average nitrogen oxides emission rates calculated at the end of each steam generating unit operating day from the measured hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.

- iv. Identification of the steam generating unit operation days when the calculated 30-day average nitrogen oxides emission rates are in excess of the emission standard, with the reason for such excess emissions as well as a description of corrective actions taken.
 - v. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.
 - vi. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.
 - vii. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.
 - viii. Identification of the times when the pollutant concentrations exceeded the full span of the continuous monitoring system.
 - ix. Description of any modifications to the continuous monitoring system that could affect the ability of the CMS to comply with Performance Specification 2 or 3.
 - x. Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR Appendix F, Procedure 1.
- E. The owner/operator shall comply with all reporting, notification, and recordkeeping requirements as specified 40 CFR Part 60 Subpart A-*General Provisions* §60.1 through §60.19.
- F. The combined total amount of natural gas combusted in Boilers # 1(SV 13) and Boilers #2 (SV 20) will be limited to 2,505.36 MMSCF/yr on a twelve month rolling basis.
- i. The owner or operator shall track the total natural gas combusted in Boiler # 1 (SV 13) and Boiler #2 (SV 20) on a monthly basis. Calculate and record the 12-month rolling total.

Authority for Requirement: DNR Construction Permits 04-A-509-S4, 05-A-481-S3
 40 CFR 60 Subpart Db
 567 IAC 23.1(2)"ccc"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 75
Stack Opening, (inches, dia.): 54
Exhaust Flow Rate (scfm): 40,000
Exhaust Temperature (°F): 280
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permits 04-A-509-S4, 05-A-481-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 from the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Continuous Emissions Monitoring:

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

Authority for Requirement - DNR Construction Permits 04-A-509-S4, 05-A-481-S3

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP SV14

Associated Equipment

Associated Emission Unit ID Numbers: EU TK-003

Emissions Control Equipment ID Number: TK-003

Emissions Control Equipment Description: Secondary Seal on Floating Roof Tank

Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU TK-003

Emission Unit Description: Denaturant or 200 Proof Ethanol Storage Tank

Raw Material/Fuel: Denaturant or Ethanol

Rated Capacity: 126,900 gal

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): 1.59 tons/yr

Authority for Requirement: DNR Construction Permit 04-A-510-S5

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): 0.09 tons/yr

Authority for Requirement: DNR Construction Permit 04-A-510-S5

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department.

Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall not use more than 5.15 MM gallons of denaturant per rolling 12-month period at this facility (Facility ID: 94-02-004). On a monthly basis, the owner or operator shall:
 - a. Record the amount of denaturant, in gallons, used at the facility; and
 - b. Calculate and record the rolling 12-month total amount of denaturant, in gallons, used at the facility.
- B. Record annually, the net material throughput in gallons.

- C. The owner or operator shall equip an internal floating roof that meets the specifications listed in 40 CFR §60.112b(a)(1). The owner or operator shall:
- a. Maintain all required reports and recordkeeping specified in 40 CFR §60.115b(a);
 - b. Keep records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the life of the source, as specified in 40 CFR §60.116b(b);
 - c. Maintain a record of the volatile organic liquids (VOL) stored in the vessel, the period of storage, and the maximum true vapor pressure of the VOL during the respective storage period, as specified in 40 CFR §60.116b(c); and

Notify the Administrator if maximum true vapor pressure of the VOL stored in this vessel exceeds 5.2 kilopascals (kPa), as specified in 40 CFR 60.116b(d).

Authority for Requirement: DNR Construction Permit 04-A-510-S5
40 CFR 60, Subpart Kb
567 IAC 23.1(2)"ddd"

NSPS Applicability

The following subparts apply to emission unit TK-003:

40 CFR 60, Subpart A – *General Provisions*

40 CFR 60, Subpart Kb – Standards of Performance for *Volatile Organic Liquid Storage Vessels*

Authority for Requirement: 40 CFR 60, Subpart A & Subpart Kb
567 IAC 23.1(2)
567 IAC 23.1(2)"ddd"
DNR Construction Permit 04-A-510-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): Working/breathing loss

Exhaust Temperature (°F): Ambient

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 04-A-510-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 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP SV15

Associated Equipment

Associated Emission Unit ID Numbers: EU TK-001
Emissions Control Equipment ID Number: TK-001
Emissions Control Equipment Description: Secondary Seal on Floating Roof Tank
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU TK-001
Emission Unit Description: 190 Proof Ethanol Storage Tank
Raw Material/Fuel: Ethanol
Rated Capacity: 250,000 gal

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.42 tons/yr
Authority for Requirement: DNR Construction Permit 04-A-511-S4

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 record annually, the net material throughput in gallons.
- B. 190 Proof Ethanol Storage Tank is limited to storing 190 proof ethanol only.
- C. The owner or operator shall equip an internal floating roof that meets the specifications listed in 40 CFR §60.112b(a)(1). The owner or operator shall:
 - i. Maintain all required reports and recordkeeping specified in 40 CFR §60.115b(a);
 - ii. Keep records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the life of the source, as specified in 40 CFR §60.116b(b);
 - iii. Maintain a record of the volatile organic liquids (VOL) stored in the vessel, the period of storage, and the maximum true vapor pressure of the VOL during the

- respective storage period, as specified in 40 CFR §60.116b(c); and
- iv. Notify the Administrator if maximum true vapor pressure of the VOL stored in this vessel exceeds 5.2 kilopascals (kPa), as specified in 40 CFR 60.116b(d).

Authority for Requirement: DNR Construction Permit 04-A-511-S4
40 CFR 60 Subpart Kb
567 IAC 23.1(2)"ddd"

NSPS and NESHAP Applicability

The storage tank, TK-001 is subject to the following NSPS subparts:

40 CFR 60, Subpart A – *General Provisions*
40 CFR 60, Subpart Kb – *Standards of Performance for Volatile Organic Liquid Storage Vessels*

Authority for Requirement: 40 CFR 60, Subpart A & Subpart Kb
567 IAC 23.1(2)
567 IAC 23.1(2)"ddd"
DNR Construction Permit 04-A-511-S4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): Working/Breathing loss
Exhaust Temperature (°F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 04-A-511-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 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP SV16

Associated Equipment

Associated Emission Unit ID Numbers: EU TK-002

Emissions Control Equipment ID Number: TK-002

Emissions Control Equipment Description: Secondary Seal on Floating Roof Tank

Continuous Emissions Monitors ID Numbers: None

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

Emission Unit Description: Denaturant or 200 Proof Ethanol Storage Tank

Raw Material/Fuel: Denaturant or Ethanol

Rated Capacity: 250,000 gal

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 1.61 tons/yr

Authority for Requirement: DNR Construction Permit 04-A-512-S6

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): 0.02 tons/yr

Authority for Requirement: DNR Construction Permit 04-A-512-S6

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall not use more than 5.15 MM gallons of denaturant per rolling 12-month period at this facility (Facility ID: 94-02-004). On a monthly basis, the owner or operator shall:
 - i. Record the amount of denaturant, in gallons, used at the facility; and
 - ii. Calculate and record the rolling 12-month total amount of denaturant, in gallons, used at the facility.
- B. Record annually, the net material throughput in gallons.

- C. The owner or operator shall equip an internal floating roof that meets the specifications listed in 40 CFR §60.112b(a)(1). The owner or operator shall:
- i. Maintain all required reports and recordkeeping specified in 40 CFR §60.115b(a);
 - ii. Keep records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the life of the source, as specified in 40 CFR §60.116b(b);
 - iii. Maintain a record of the volatile organic liquids (VOL) stored in the vessel, the period of storage, and the maximum true vapor pressure of the VOL during the respective storage period, as specified in 40 CFR §60.116b(c); and
 - iv. Notify the Administrator if maximum true vapor pressure of the VOL stored in this vessel exceeds 5.2 kilopascals (kPa), as specified in 40 CFR 60.116b(d).

Authority for Requirement: DNR Construction Permit 04-A-512-S6
40 CFR 60 Subpart Kb
567 IAC 23.1(2)"ddd"

NSPS and NESHAP Applicability

The storage tank, TK-002 is subject to the following NSPS subparts:

40 CFR 60, Subpart A – General Provisions
40 CFR 60, Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels

Authority for Requirement: 40 CFR 60, Subpart A & Subpart Kb
567 IAC 23.1(2)
567 IAC 23.1(2)"ddd"
DNR Construction Permit 04-A-512-S6

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): Working/Breathing loss
Exhaust Temperature (°F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 04-A-512-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 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, EP SV18

Associated Equipment

Associated Emission Unit ID Numbers: EU TK-004, EU TK-005
Emissions Control Equipment ID Number: TK-004, TK-005
Emissions Control Equipment Description: Secondary Seal on Floating Roof Tank
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU TK-004, EU TK-005
Emission Unit Description: 200 Proof Ethanol Storage Tank
Raw Material/Fuel: Ethanol
Rated Capacity: 1,500,000 gal (each)

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.20 tons/yr
Authority for Requirement: DNR Construction Permits 04-A-513-S5, 04-A-514-S5

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 record annually, the net material throughput in gallons of each tank.
- B. Each 200 Proof Ethanol Storage Tank is limited to storing 200 proof ethanol only.
- C. The owner or operator shall equip an internal floating roof that meets the specifications listed in 40 CFR §60.112b(a)(1). The owner or operator shall:
 - i. Maintain all required reports and recordkeeping specified in 40 CFR §60.115b(a);
 - ii. Keep records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the life of the source, as specified in 40 CFR §60.116b(b);
 - iii. Maintain a record of the volatile organic liquids (VOL) stored in the vessel, the

- period of storage, and the maximum true vapor pressure of the VOL during the respective storage period, as specified in 40 CFR §60.116b(c); and
- iv. Notify the Administrator if maximum true vapor pressure of the VOL stored in this vessel exceeds 5.2 kilopascals (kPa), as specified in 40 CFR 60.116b(d).

Authority for Requirement: DNR Construction Permits 04-A-513-S5, 04-A-514-S5
40 CFR 60 Subpart Kb
567 IAC 23.1(2)"ddd"

NSPS Applicability

The storage tanks, TK-004 and TK-005 are subject to the following NSPS subparts:

40 CFR 60, Subpart A – *General Provisions*
40 CFR 60, Subpart Kb – *Standards of Performance for Volatile Organic Liquid Storage Vessels*

Authority for Requirement: 40 CFR 60, Subpart A & Subpart Kb
567 IAC 23.1(2)
567 IAC 23.1(2)"ddd"
DNR Construction Permits 04-A-513-S5, 04-A-514-S5

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 49

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): Working/Breathing loss

Exhaust Temperature (°F): Ambient

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 04-A-513-S5, 04-A-514-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 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP SV21

Associated Equipment

Associated Emission Unit ID Numbers: EU 24
Emissions Control Equipment ID Number: CS21
Emissions Control Equipment Description: Oxidation Catalyst
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU 24
Emission Unit Description: Non-emergency Diesel Generator
Raw Material/Fuel: Diesel 135.8 gal diesel fuel/hr
Rated Capacity: 2,000 kW

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 05-A-483-S4
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 1.84 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-483-S4

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.84 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-483-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.84 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-483-S4
567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 0.15 lb/hr, 2.5 lb/MMBtu

Authority for Requirement: DNR Construction Permit 05-A-483-S4
567 IAC 23.3(3) "b"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 59.0 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-483-S4

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.97 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-483-S4

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 70% CO reduction or 23 ppm_{vd} CO
Authority for Requirement: DNR Construction Permit 05-A-483-S4
567 IAC 23.1(4)"cz"
40 CFR 63 Subpart ZZZZ

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 combust only diesel fuel oil in this emission unit (EU24).
- B. This emission unit (EU24) shall not operate more than 450 hours per rolling 12-month period, including but not limited to, emergency situations. An emergency situation is defined as non-normal operation, i.e. that plant has enacted emergency shutdown procedures and no other combustion units at the plant are in operation.
 - i. Record on a monthly basis, the number of hours this emission unit (EU24) is operated under emergency situations. Record must detail which combustion sources are in operation during generator operation. Calculate and record 12-month rolling totals.
- C. This generator (EU24) shall operate, for curtailment purposes, a maximum of 16 times per calendar year and no curtailment event shall exceed six hours in duration.
 - i. Record on a monthly basis, the number of hours the emission unit (EU24) is operated under normal plant operation. Record must detail which combustion sources are in operation during generator operation. Calculate and record rolling 12-month totals.

D. In accordance with §63.6604(a), the diesel fuel oil burned in this engine shall meet the following specifications from 40 CFR 1090.305 for nonroad diesel fuel:

Parameter	Limit
Sulfur (S) content	15 ppm (0.0015%) by weight
Minimum cetane index or Maximum aromatic content	40 35% (by volume)

The owner or operator of the engine shall comply with these requirements listed above by one of the following methods:

- a. have the fuel supplier certify that the fuel delivered meets the definition of non-road diesel fuel as defined in 40 CFR 1090.305;
 - b. obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
 - c. perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.
- E. In accordance with §63.6625(g) the engine is required to be equipped with either a closed crankcase ventilation system or a filtered open crankcase ventilation system. The owner or operator shall follow the manufacturer’s specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters.
- F. The owner or operator must operate and maintain a continuous temperature monitoring device on the inlet of the catalytic oxidizer that meets the requirements of §63.6625(b). The owner or operator shall maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F, based on a 4-hour rolling average.
- G. The owner or operator must operate and maintain a pressure drop monitoring device across the catalytic oxidizer. The owner or operator shall maintain the catalyst so that pressure drop across it does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial compliance test.
- H. The owner or operator shall maintain the following records:
- i. A record of the inlet temperature to the catalyst. The data shall be reduced to 4-hour rolling averages.
 - ii. A record of the pressure drop across the catalyst. The pressure drop shall be recorded at least once per month.
- I. In accordance with §63.6625(i), the owner or operator shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitation for CO apply.

Authority for Requirement: DNR Construction Permit 05-A-483-S4
567 IAC 23.1(4)"cz"
40 CFR 63 Subpart ZZZZ

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 10
- Stack Opening, (inches, dia.): 18
- Exhaust Flow Rate (scfm): 8,500
- Exhaust Temperature (°F): 809
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 05-A-483-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 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Compliance Demonstration(s)

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
CO	Stack Testing	Per NESHAP Subpart ZZZZ ¹	1 hour	40 CFR 60, Appendix A, Method 10

¹ Initial CO test was completed on 9/1/2015. After the initial CO test, the facility is required to conduct subsequent performance tests every 8,760 hours or 3 years, whichever comes first. If the engine is operated less than 100 hours per year, testing frequency is reduced to every 5 years. The most recent CO test was completed on 7/28/2021.

- Authority for Requirement: DNR Construction Permit 05-A-483-S4
- 567 IAC 23.1(4)"cz"
- 40 CFR 63 Subpart ZZZZ

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

Agency Approved Operation & Maintenance Plan Required?

Yes No

Facility Maintained Operation & Maintenance Plan Required?

Yes No

Compliance Assurance Monitoring (CAM) Plan Required?

Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP SV23

Associated Equipment

Associated Emission Unit ID Numbers: EU 14, EU 15, EU 16, EU 17

Emissions Control Equipment ID Number: None

Emissions Control Equipment Description: None

Continuous Emissions Monitors ID Numbers: None

<u>Emission Unit ID</u>	<u>Emission Unit Description</u>	<u>Max Rated Capacity</u>	<u>Control Equipment</u>
EU 14	Centrifuge #1	Each: 350 gallons per minute of whole stillage	None
EU 15	Centrifuge #2		
EU 16	Centrifuge #3		
EU 17	Centrifuge #4		

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-215
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 17-A-215
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 2.90 lb/hr

Authority for Requirement: DNR Construction Permit 17-A-215

Pollutant: Single Hazardous Air Pollutants (Single HAP)

Emission Limit(s): 0.062 lb/hr

Authority for Requirement: DNR Construction Permit 17-A-215

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): 0.085 lb/hr

Authority for Requirement: DNR Construction Permit 17-A-215

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 use EP SV23 Centrifuge Bypass Stack only when the Regenerative Thermal Oxidizer is offline.
- B. The owner or operator shall use EP SV23 to vent emissions to the atmosphere from Centrifuge #1, Centrifuge #2, Centrifuge #3, and Centrifuge #4 no more than 500 hours per rolling 12-month period.
 - a. The owner or operator shall record the total hours when emissions of Centrifuge #1, Centrifuge #2, Centrifuge #3, and Centrifuge #4 are vented through EP SV23 (Bypass stack) on a monthly basis. Calculate and record the rolling 12-month totals.

Authority for Requirement: DNR Construction Permit 17-A-215

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (acfm): 700

Exhaust Temperature (°F): 200

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 17-A-215

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 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 Flare

Associated Equipment

Associated Emission Unit ID Numbers: EU3a, EU3b
Emissions Control Equipment ID Number: CE Flare (0.055 MMBtu/hr)
Emissions Control Equipment Description: Flare
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU3a, EU3b
Emission Unit Description: Ethanol Loadout Truck and Ethanol Loadout Rail
Raw Material/Fuel: Ethanol
Rated Capacity: 650 gal/min (Truck), 2,400 gal/min (Rail)

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-515-S7
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-515-S7
567 IAC 23.3(2) "a"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 1.81 tons/yr

Authority for Requirement: DNR Construction Permit 04-A-515-S7

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 7.95 tons/yr

Authority for Requirement: DNR Construction Permit 04-A-515-S7

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 4.54 tons/yr

Authority for Requirement: DNR Construction Permit 04-A-515-S7

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): 2.84 tons/yr

Authority for Requirement: DNR Construction Permit 04-A-515-S7

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 undenatured ethanol production for the facility shall not exceed 100 million gallons on a rolling 12-month basis.
 - i. The owner or operator shall record the amount of ethanol produced at the facility on a rolling 12-month basis.
- B. The owner or operator shall loadout a maximum of 108.15 million gallons of undenatured ethanol, denatured ethanol or E85, combined per rolling 12-month period on a plantwide basis.
 - i. Out of the 108.15 MMGal, the facility is allowed to loadout a maximum of 0.5 MMGal per rolling 12-months, via the truck loadout as unflared.
 - ii. Out of the 108.15 MMGal, the facility is allowed to loadout a maximum of 1.5 MMGal per rolling 12-months, via the rail loadout as unflared.
 - iii. Out of the 108.15 MMGal, the facility is allowed to loadout a maximum of 10 MMGal of E85 per rolling 12-months, via the truck or rail loadout as flared.
 - iv. The owner or operator shall record the total amount of ethanol (in gallons, undenatured ethanol, denatured ethanol and E85) loaded through the truck & rail loadout on a monthly basis, and calculate and record rolling twelve-month rolling totals.
- C. The owner or operator shall not switch load the rail cars (fill denatured ethanol into a tank that was previously loaded with gasoline).
- D. All truck and rail loadouts shall be controlled by a flare, except as specified in Operating Requirements B.i and B.ii (shown above).
- E. The flare shall be operated with a flame when emissions are vented to it.
- F. The presence of a pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame in the flare.
- G. The flare shall be a smokeless design.
- H. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of Flare.
 - i. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Authority for Requirement: DNR Construction Permit 04-A-515-S7

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 23
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 100
Exhaust Temperature (°F): 1,500
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 04-A-515-S7

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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 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
Truck and Rail Loading Rack (CE-Flare)
POET Biorefining – Gowrie, LLC**

I. Background

A. Emissions Unit

Facility: POET Biorefining – Gowrie, LLC
Source ID #: EU3a and EU3b
EU Description: Truck Loading Rack (EU3a); Rail Loading Rack (EU9b)

B. Control Technology

Control Equipment ID: CE-Flare
CE Description: Flare
PTE before controls: 231.92 ton/yr of VOC
PTE after controls: 7.95 ton/yr of VOC @ 95% control efficiency

C. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation #: Iowa DNR Construction Permit 04-A-505-S9
Emission Limit: 28.63 ton/yr VOC

Monitoring Requirements: Pilot flame shall be monitored using a thermocouple or equivalent to detect presence of a flame.

II. Monitoring Approach

A. Indicator:

1. Thermocouple or equivalent will be used to detect presence of a flame.

B. Monitoring Approach:

1. The presence of a pilot flame is monitored with a thermocouple or equivalent.

C. Indicator Range:

1. An excursion is defined as any period of time the pilot flame is not detected while in operation

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is triggered when there are excursions on 5% of the operation in a semi-annual reporting period (January 1 to June 30, or July 1 to December 31). A deviation shall be reported in the semi-annual report when the QIP threshold is triggered.

E. Performance Criteria:

Data Representativeness:

A type K thermocouple is used to detect presence of a flame.

Verification of operational status:

The system that controls loading of trucks and railcars (Accuload) has programming logic that will not allow lading of railcars or trucks without the presence of a flame.

QA/QC practice and criteria:

1. Thermocouple validated annually by John Zinc per manufacturer recommendation
2. Flare components inspected and maintained per manufacturer specifications

Monitoring frequency and data collection procedure:

1. Flame status is monitored continuously by the Accuload

Average period:

NA

III. Justification

A. Background:

VOC emissions from the truck loading rack (EU3a) are controlled with a flare.

B. Rationale for Selection of Performance Indicator:

The performance indicator selected is a thermocouple to detect the presence of a pilot flame. To achieve the required emission reduction the flare must be operated during periods of truck loadout.

C. Rationale for Selection of Indicator Level:

The presence of a pilot flame is based on the requirement that the flare operate anytime truck loadout is used.

Emission Point ID Number: F001

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
F001	Grain Receiving Fugitive Dust	NA	Grain	840 tons/hr	08-A-529-S2

Applicable Requirements

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

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

Pollutant: Opacity⁽¹⁾

Emission Limit(s): 5%, 0%

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

⁽¹⁾Per 60.302(c), any affected individual truck unloading station shall not exhibit greater than 5% opacity. Any affected grain handling operation shall not exhibit greater than 0% opacity.

Operational Limits & Reporting/Record keeping Requirements

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

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

- A. The maximum amount of grain received and/or processed at Poet Biorefining – Gowrie (Plant No. 94-02-004) shall not exceed 30.0 million bushels of grain per rolling 12-month period.
- B. The facility is limited to processing the following grains: corn, sorghum, and wheat.

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 F002
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Sweeping and Dust Suppression
Control Measure: Dust Suppression

Emission Unit vented through this Emission Point: EU F002
Emission Unit Description: Fugitive Paved and Unpaved Roads (Plant-wide)
Raw Material/Fuel: Fugitive Dust
Rated Capacity: N/A

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): The owner/operator shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond lot line of the property.

Authority for Requirement: DNR Construction Permit 05-A-484-S6
567 IAC 23.3(2)"c"(1)

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 55.30 tons/yr ⁽¹⁾

Authority for Requirement: DNR Construction Permit 05-A-484-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 90.0 tons/yr ⁽¹⁾

Authority for Requirement: DNR Construction Permit 05-A-484-S6

⁽¹⁾ Combined emission limit for paved and unpaved road emissions. The facility shall calculate and record rolling 12-month totals.

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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:

Paved Roads:

- A. Truck traffic emissions on the paved road shall be controlled by sweeping twice a week except as specified in requirements i, ii, iii and iv below. At a minimum the sweeper shall be an enclosed broom sweeper or functional equivalent as approved by the department.
 - i. If sweeping cannot be accomplished because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35° F (1.7° C) or conditions due to weather could create hazardous driving conditions, then the sweeping shall be postponed and accomplished as soon after the scheduled date as the conditions preventing the sweeping have abated.
 - ii. Paved road sweeping need not occur when a rain gauge located at the site indicates that at least 0.2 inches of precipitation (water equivalent) has occurred within the preceding 24-hour time period. However, paved road sweeping shall resume within 24-hours after the precipitation event has ended.
 - iii. Paved road sweeping need not occur when the facility experiences no haul road traffic on that calendar day.
 - iv. If sweeping cannot be accomplished because of malfunction of the sweeper, water flushing shall be used as a substitute measure to reduce dust emissions from paved roads.
 - v. The facility shall record the frequency of cleaning/sweeping performed on the haul roads. If the roads are not cleaned due to weather, a written record must be kept on site outlining the conditions.
 - vi. The facility shall increase the sweeping frequency if the calculated rolling 12-month PM10 emissions, for both paved and unpaved roads combined, are above 45 TPY.
- B. Performance testing on the haul road surface silt loading shall be determined on a quarterly basis. Performance testing shall be completed prior to any sweeping or water flushing. The silt loading sampling shall be conducted according to the procedures outlined in AP-42, Appendix C.1 Procedures for Sampling Surface/Bulk Dust Loading and Appendix C.2 Procedures for Laboratory Analysis of Surface/Bulk Dust Loading Samples.
 - i. The owner or operator shall sample a minimum of one paved road segment each quarter.
 - ii. The owner or operator shall maintain a log of each silt load sampling event that contains the following:
 - a. Records of the road segments sampled each quarter.
 - b. The measured silt loading as percent. Records of calculated average values for each quarter.

- c. The date of silt sampling event.
 - d. The location of the sample taken.
 - e. Sample area used for silt sampling in feet.
 - f. The operator's initials.
- iii. The owner or operator shall maintain record of the average silt loading results in g/m² for each quarter.
- C. The owner or operator shall calculate and record the monthly fugitive dust emissions according to the following formula, which uses the equations from AP-42 Section 13.2.1, the PM and PM10 empirical constants, and assumes a mean vehicle weight of 27.5 tons.

$$E_{\text{ext}} = [k (sL)^{0.91} \times (W)^{1.02}] (1 - P/4N)$$

Where E_{ext} = annual or other long-term average emission factor in the same units as k,

k = particle size multiplier for particle size range and units of interest,
sL = road surface silt loading (grams per square meter) (g/m²). The facility shall use the silt loading results for each quarter to calculate emissions for that quarter.

W = average weight (tons) of the vehicles traveling the road,

P = number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period. and

N = number of days in the averaging period (e.g., 365 for annual, 91 for seasonal, 30 for monthly)

- D. The owner or operator shall use the daily VMT to convert lb/VMT to lb/day. The owner or operator shall update monthly the twelve month rolling total PM emissions by adding up the calculated monthly emissions for the previous twelve months (for both paved and unpaved road emissions), and immediately notify the DNR if the twelve month rolling total exceeds 90.0 tons. The owner or operator shall update monthly the twelve month rolling total PM10 emissions by adding up the calculated monthly emissions for the previous twelve months (for both paved and unpaved road emissions), and immediately notify the DNR if the twelve month rolling total exceeds 55.30 tons.
- E. The owner/operator shall record the number of trucks that load/unload material on a monthly basis. Based on the number of trucks the total Vehicle Miles Traveled (VMT) shall be calculated for that month.
- F. Best Management Practices (BMP) – The owner or operator shall implement “good housekeeping” or best management practices to minimize fugitive emissions from plant haul roads. Such practices include but are not limited to:
- i. Clean up spills of raw materials and product on the haul road surface as expeditiously as possible and in a manner consistent with good practice for minimizing dust emissions.
 - ii. Clean around truck scale areas and process buildings in a manner consistent with good practice for minimizing fugitive emissions.
 - iii. Post and maintain speed limit (15 mph) signs.

Unpaved Roads:

- G. The owner or operator shall utilize control measures to reduce particulate emissions generated on unpaved road segments, while in use except as noted in Operating Requirements G.ii and G.iii (shown below). These measures include any of the following
- i. Chemical dust suppressant application. The owner or operator shall apply chemical dust suppressant to the road surface at minimum frequency of once every other month. The chemical dust suppressant frequency shall be increased if the calculated 12-month rolling total PM10 emissions (for both paved and unpaved road emissions) are above 45 TPY.
 - ii. If the suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35° F (1.7° C) or conditions due to weather could create hazardous driving conditions, then the suppressant application shall be postponed and applied immediately after the scheduled date as the conditions preventing the application have abated.
 - iii. Suppressant application need not occur when a rain gauge located at the site indicates that at least 0.2 inches of precipitation (water equivalent) has occurred within the preceding 24-hour time period. However, suppressant application shall resume within 24-hours after the precipitation event has ended.
- H. If visible emissions are observed from the Unpaved Road Segments, during use, the owner or operator shall immediately apply water or chemical dust suppressant to haul road segment.
- I. The owner or operator shall maintain all record of the suppressant application on unpaved road segments. The record shall include suppressant application frequency, quantity applied and suppressant utilized. If suppressant is not applied due to weather as specified in Operating Requirements G.ii and G.iii (shown above), a written record must be kept on site outlining the conditions and when suppressant application resumed.
- J. Best Management Practices (BMP) – The owner or operator shall implement “good housekeeping” or best management practices to minimize fugitive emissions from unpaved road segments. Such practices may include but are not limited to:
- i. Clean up spills of materials on the road surface as expeditiously as possible and in a manner consistent with good practice for minimizing dust emissions,
 - ii. Post and maintain speed limit (15 mph) signs,
 - iii. Apply additional suppressant to material unloading/loading areas as necessary to prevent track out of material on the traveled road surface.
- K. The owner or operator shall develop a written plan to implement, at a minimum, the Best Management Practices as specified in Operating Requirements J (shown above). The written plan and any documentation as required by the plan shall be maintained onsite and available for inspection.
- L. Performance testing on the unpaved haul road surface silt content shall be determined on a quarterly basis. Performance testing shall be completed prior to any suppressant application. The silt content sampling shall be conducted according to the procedures outlined in AP-42, Appendix C.1 Procedures for Sampling Surface/Bulk Dust Loading and Appendix C.2 Procedures for Laboratory Analysis of Surface/Bulk Dust Loading Samples.
- i. The owner or operator shall sample a minimum of one unpaved road segments each quarter. The owner or operator shall use the average of the three sampled results, as silt content for the unpaved roads.

- ii. The owner or operator shall maintain a log of each silt content sampling event that contains the following:
 - a. Records of the road segments sampled each quarter.
 - b. The measured silt content as percent. Records of calculated average values for each quarter.
 - c. The date of silt sampling event.
 - d. The location of the sample taken.
 - e. Sample area used for silt sampling in feet.
 - f. The operator's initials.
 - g. The owner or operator shall maintain record of the average silt content results expressed as percent for each quarter.
- M. The owner or operator shall calculate and record the monthly fugitive dust emissions according to the following formula, which uses the equations from AP-42 Section 13.2.2, the PM and PM10 empirical constants, and assumes a mean vehicle weight of 27.5 tons.

$$E = k (s/12)^a * (W/3)^b * ([365-P]/365)$$

Where E = size specific emission factor (lb/VMT)

s = surface silt content in %. The facility shall use the measured value for each quarter to calculate emissions for each month in that quarter.

W = mean vehicle weight (tons)

K, a, and b are empirical constants from Table 13.2.2-2

P = number of days in a year with at least 0.254 mm (0.01 in) of precipitation.

- N. The owner or operator shall use the daily VMT to convert lb/VMT to lb/day. The owner or operator shall update monthly the twelve month rolling total PM emissions by adding up the calculated monthly emissions for the previous twelve months (for both paved and unpaved road emissions), and immediately notify the DNR if the twelve month rolling total exceeds 90.0 tons. The owner or operator shall update monthly the twelve month rolling total PM10 emissions by adding up the calculated monthly emissions for the previous twelve months (for both paved and unpaved road emissions), and immediately notify the DNR if the twelve month rolling total exceeds 55.30 tons.
- O. The owner/operator shall record the number of trucks that load/unload material on a monthly basis. Based on the number of trucks the total Vehicle Miles Traveled (VMT) shall be calculated for that month.

Authority for Requirement: DNR Construction Permit 05-A-484-S6

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: F003

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
F003	DDGS Loadout Fugitives	None	DDGS	220 tons/hr	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): 0%

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

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements

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

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

No limits or requirements at this time.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP F004

Associated Equipment

Associated Emission Unit ID Numbers: EU F004
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Leak Detection and Repair (LDAR)
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU F004
Emission Unit Description: Equipment Leaks
Raw Material/Fuel: VOC Emissions
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): 8.46 tons/yr
Authority for Requirement: DNR Construction Permit 05-A-485-S3

Pollutant: Single Hazardous Air Pollutants (Single HAP)
Emission Limit(s): 0.42 tons/yr
Authority for Requirement: DNR Construction Permit 05-A-485-S3

Pollutant: Total Hazardous Air Pollutants (Total HAP)
Emission Limit(s): 0.50 tons/yr
Authority for Requirement: DNR Construction Permit 05-A-485-S3

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The component count shall be documented as to the number and types of components used. Components include but are not limited to valves, pumps, compressor seals, flanges, etc.

- The component count shall be updated as the component count varies.
- B. Calculate and record the VOC emissions in Tons 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.
 - C. The owner or operator shall follow the applicable standards of NSPS Subpart VVa, 40 CFR 60.480a through 40 CFR 60.489a.
 - D. The owner or operator shall keep records as required in 40 CFR 60.486a and reports as required in 40 CFR 60.487a.

Authority for Requirement: DNR Construction Permit 05-A-485-S3
567 IAC 23.1(2)"nn"

NSPS Applicability

POET Biorefining-Gowrie is subject to the requirements/conditions of New Source Performance Standards (NSPS) Subpart VV- Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry as specified in 40 CFR Part 60 §60.480. However, POET Biorefining-Gowrie chooses to comply with the provisions of NSPS Subpart VVa, 40 CFR Part 6 §60.480a to satisfy the requirements of NSPS VV. POET Biorefining-Gowrie is subject to the requirements and conditions of NSPS Subpart A-General Provisions.

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 F005

Associated Equipment

Associated Emission Unit ID Numbers: EU F005
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU F005
Emission Unit Description: Wetcake Production
Raw Material/Fuel: Wetcake
Rated Capacity: 60 ton/hr

Applicable Requirements

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

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

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

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

Operational Limits & Requirements

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

There are no operational 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 Cooling Tower

Associated Equipment

Associated Emission Unit ID Numbers: EU Cooling Tower
Emissions Control Equipment ID Number: CS26
Emissions Control Equipment Description: Mist Eliminator – drift loss 0.005%
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU Cooling Tower
Emission Unit Description: Cooling Tower (3 Cells)
Raw Material/Fuel: Water
Rated Capacity: 25,000 gals/min (Combined for 3 cells)

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 05-A-482-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 1.25 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-482-S3

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.25 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-482-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf, 1.25 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-482-S3
567 IAC 23.3(2)"a"

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Total Dissolved Solids (TDS) concentration in the cooling water shall not exceed 2,000 parts per million (ppm) by weight (2,000 mg/L) for any single sampling event.
 - i. The owner or operator shall complete an analysis of the Total Dissolved Solids (TDS) concentration in the cooling water associated with Cooling Tower on a quarterly basis expressed as parts per million (ppm) by weight (mg/L). Sampling shall occur four times per calendar year with a minimum of two months between sampling events. The owner or operator is allowed to measure the electrical conductivity of the cooling water to determine the Total Dissolved Solids (TDS). The determined TDS/conductivity relationship and the measured electrical conductivity value shall be used to determine compliance with allowable TDS.
- B. Biocide or additive used in cooling water shall not contain any VOCs or HAPs.
 - i. Maintain onsite a copy of Safety Data Sheet (SDS) of any biocide or additive used in cooling water detailing VOC and HAP content (if any).
- C. Maintain Cooling Tower according to manufacturer specifications and maintenance schedule.
 - i. Maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of Cooling Tower.

Authority for Requirement: DNR Construction Permit 05-A-482-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 34
Stack Opening, (inches, dia.): 288
Exhaust Flow Rate (scfm): 681,850
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 05-A-482-S3
(The stack characteristics listed above are for each of the 3 cells)

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 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 SV24

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU26	Corn Oil Separation System	Syrup	170 gal/min	19-A-123

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 19-A-123

Operational Limits & Requirements

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

There are no operating requirements at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30

Stack Outlet, (inches): 3

Exhaust Flow Rate (scfm): Working and Breathing Loss

Exhaust Temperature (°F): 165

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 19-A-123

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 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

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

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

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

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

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

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

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

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

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

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

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

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

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

2. Excess Emissions Reporting

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

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

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

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

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

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

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

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

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

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that does any of the following:
 - i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - iii. Require more frequent monitoring or reporting by the permittee; or
 - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
- b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
- c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Title V Permit Modification.

- a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
 - i. Do not violate any applicable requirement;
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

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

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

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

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

G24. Permit Reopenings

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

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

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

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

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

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

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

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

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

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

- e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*
5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit; or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

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

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

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

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

Iowa Compliance Officer
Air Branch
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

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

Field Office 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

Wallace State Office Building
502 E 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 Db – Standards of Performance for *Industrial-Commercial-Institutional Steam Generating Units*
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Db>
- C. 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 – 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 November 7, 2006
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-VVa>
- F. 40 CFR 63 Subpart ZZZZ – National Emission Standard for Hazardous Air Pollutants for *Stationary Reciprocating Internal Combustion Engines*
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ>