

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

Name of Permitted Facility: POET Biorefining - Ashton
Facility Location: 4970 260th Street North, Ashton, Iowa 51232
Air Quality Operating Permit Number: 14-TV-006
Expiration Date: December 4, 2028
Permit Renewal Application Deadline: June 4, 2028

EIQ Number: 92-6965
Facility File Number: 72-03-002

Responsible Official

Name: Terry Hurlburt
Title: General Manager
Mailing Address: 4970 260th Street N, Ashton, IA 51232
Phone #: (712) 724-5201

Permit Contact Person for the Facility

Name: Jill McBreen
Title: EH&S Specialist
Mailing Address: 4970 260th Street N, Ashton, IA 51232
Phone #: (712) 724-5213

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

For the Director of the Department of Natural Resources

Marnie Stein

12/05/2023

Marnie Stein, Supervisor of Air Operating Permits Section

Date

Table of Contents

I. Facility Description and Equipment List	4
II. Plant - Wide Conditions.....	6
III. Emission Point Specific Conditions	9
IV. General Conditions.....	81
G1. Duty to Comply	
G2. Permit Expiration	
G3. Certification Requirement for Title V Related Documents	
G4. Annual Compliance Certification	
G5. Semi-Annual Monitoring Report	
G6. Annual Fee	
G7. Inspection of Premises, Records, Equipment, Methods and Discharges	
G8. Duty to Provide Information	
G9. General Maintenance and Repair Duties	
G10. Recordkeeping Requirements for Compliance Monitoring	
G11. Evidence used in establishing that a violation has or is occurring.	
G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification	
G13. Hazardous Release	
G14. Excess Emissions and Excess Emissions Reporting Requirements	
G15. Permit Deviation Reporting Requirements	
G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations	
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification	
G18. Duty to Modify a Title V Permit	
G19. Duty to Obtain Construction Permits	
G20. Asbestos	
G21. Open Burning	
G22. Acid Rain (Title IV) Emissions Allowances	
G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements	
G24. Permit Reopenings	
G25. Permit Shield	
G26. Severability	
G27. Property Rights	
G28. Transferability	
G29. Disclaimer	
G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification	
G31. Prevention of Air Pollution Emergency Episodes	
G32. Contacts List	
V. Appendices.....	95
Appendix A: Links to Standards	
Appendix B: Custom Fuel Sulfur Content Monitoring Schedule	

Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
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 - Ashton

Permit Number: 14-TV-006

Facility Description: Industrial Organic Chemicals (SIC 2869)
Ethyl Alcohol Manufacturing (NAICS 325193)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	Construction Permit Number
EP-SV1	EU-1	3 Grain Receiving Pits (Truck and Railcar)	03-A-357-S5
	EU-2	Elevator (Headhouse and Internal Handling)	
	EU-3	Grain Bin Loading (5 Bins)	
	EU-29	DDGS Loadout	
EP-SV2	EU-4	Grain Scalper, Conveyor, Surge Bin	03-A-058-S1
EP-SV3	EU-5	Hammermill #1	22-A-028
EP-SV18	EU-22	Hammermill #2	22-A-029
EP-SV19	EU-23	Hammermill #3	22-A-030
EP-SV22	EU-27	Hammermill #4	22-A-031
	EU-31	Flour Conveyor	
EP-SV4	EU-6	Mash Fermentation and Beer Well	03-A-360-S13
	EU-7	Distillation (Columns, Sieves, and Evaporator)	
EP-SV6	EU-6	Mash Fermentation and Beer Well	03-A-362-S12
	EU-7	Distillation (Columns, Sieves, and Evaporator)	
	EU-8	DDGS Dryer #1	
	EU-9	DDGS Dryer #2	
	EU-14	Centrifuge #1	
	EU-15	Centrifuge #2	
	EU-16	Centrifuge #3	
	EU-17	Centrifuge #4	
	EU-26	Centrifuge #5	
EU-30	Corn Oil Separation System		
EP-SV7	EU-11	DDGS Fluid Bed Cooler	03-A-363-S5
EP-SV8	EU-12	DDGS Storage Silo	03-A-364
EP-SV9	EU-13	DDGS Silo Bypass	03-A-365
EP-SV11	EU-TK-001	190 Proof Ethanol Storage Tank	03-A-367
EP-SV12	EU-TK-002	Denaturant Storage Tank	03-A-368
EP-SV13	EU-TK-003	Denatured Ethanol Tank	03-A-369-S1
EP-SV14	EU-TK-004	Denatured Ethanol Tank	03-A-370-S1

EP-SV16	EU-TK-006	190 Proof Ethanol/Denaturant Storage Tank	03-A-371-S2
EP-SV17	EU-20	Pneumatic Flour Conveyor/Receiving	03-A-372-S1
EP-SVFLARE	EU-18	Truck and Rail Loadout (Flare)	03-A-1270-S3
EP-SV20	EU-21	Boiler #1	03-A-1268-S1
EP-SV21	EU-24	Gas Turbine #1	03-A-1269-S1
	EU-25	Duct Burner #1	
EP-SV23	EU-28	350 kW Emergency Generator	15-A-306
EP-SV24	EU-14	Centrifuge #1	15-A-307-S2
	EU-15	Centrifuge #2	
	EU-16	Centrifuge #3	
	EU-17	Centrifuge #4	
	EU-26	Centrifuge #5	
EP-SV25	EU-30	Corn Oil Separation System	19-A-084
EP-F002	EU-F002	Fugitive Dust Emissions – Truck Traffic	05-A-402-S3
EP-F004	EU-S4	Fugitive DDGS Loadout, DDGS Flat Storage, and Grain Handling	None
EP-F005	EU-FS5	Wet Cake Production	20-A-052
EP-F006	EU-FS2	Fugitive VOC Emissions - Equipment Leaks	05-A-401-S1
EP-30 (F003)	EU-FS3	Cooling Towers (3 cells)	05-A-400-S1

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-29	Corn Oil Storage Tanks (2), 30,000 gallons each
EU-TK-005	Corrosion Inhibitor Tank

II. Plant-Wide Conditions

Facility Name: POET Biorefining - Ashton
Permit Number: 14-TV-006

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: December 5, 2023
Ending on: December 4, 2028

Amendments, modifications and reopening 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 emission points are EP-SV4, EP-SV6, EP-SV11, EP-SV12, EP-SV13, EP-SV14, EP-SV16, EP-SVFlare, EP-SV20, EP-SV21, EP-SV23, EP-SV25, and EP-F006

See Appendix for the 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 Dc Requirements

This facility is subject to Standards of Performance for Small Industrial, Commercial, Institutional Steam Generating Units. The affected emission points EP-SV20 and EP-SV21.

See Appendix for the link to the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

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 emission points are EP-SV11, EP-SV12, EP-SV13, EP-SV14, EP-SV16

See Appendix for the link to the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

40 CFR 60 Subpart GG Requirements

This facility is subject to Standards of Performance for Stationary Gas Turbines. The affected emission point is EP-SV21.

See Appendix for the link to the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

Authority for Requirements: 40 CFR 60 Subpart GG
567 IAC 23.1(2) "aa"

40 CFR 60 Subpart VVa Requirements

This facility is subject to Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006. The affected emission points are EP-SV11, EP-SV12, EP-SV13, EP-SV14, EP-SV16, EP SVFlare and EP-SV25.

See Appendix for the link to the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

40 CFR 60 Subpart IIII Requirements

This facility is subject to the Standards for Performance for Stationary Compression Ignition Internal Combustion Engines. The affected emission point is EP-SV23

See Appendix for the link to the Standard.

Authority for Requirements: 40 CFR 60 Subpart IIII
567 IAC 23.1(2)"yyy"

III. Emission Point-Specific Conditions

Facility Name: POET Biorefining - Ashton

Permit Number: 14-TV-006

Emission Point ID Number: EP-SV1

Associated Equipment

Associated Emission Unit ID Numbers: EU-1, EU-2, EU-3, EU-29

Emissions Control Equipment ID Number: CS-1

Emissions Control Equipment Description: Pulse Jet Baghouse

Continuous Emissions Monitors ID Numbers: None

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU-1	3 Grain Receiving Pits via Truck & Rail	Grain	840 tons/hr ⁽¹⁾	03-A-357-S5
EU-2	Elevator Headhouse & Internal Handling		840 tons/hr ⁽¹⁾	
EU-3	5 Grain Bins		1,921,000 bushels/hr	
EU-29	DDGS Loadout		135 tons/hr ⁽²⁾	

(1) The process design capacity is 700 tons/hr based on a receiving rate of 25 tons/truck and a maximum of 25 trucks per hour.

(2) The process design capacity is 120 tons/hr based on a loadout rate of 30 tons/truck and a maximum of 4 trucks 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 03-A-357-S5
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 Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.30 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-357-S5

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.30 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-357-S5

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.30 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-357-S5
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.88 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-357-S5

Pollutant: Single HAP - Acetaldehyde
Emission Limit(s): 0.07 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-357-S5

Pollutant: Single HAP (SHAP)
Emission Limit(s): 0.08 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-357-S5

⁽¹⁾ The specific Individual HAP are acrolein, formaldehyde, and methanol. The emission limit applies to each individual HAP separately and does not represent the sum of these HAPs.

Pollutant: Total HAP (THAP)
Emission Limit(s): 0.23 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-357-S5

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. POET Biorefining – Ashton (Facility ID: 72-03-002) is limited to receiving and/or processing the following grains: corn, wheat, and sorghum.
- B. The maximum amount of grain received at POET Biorefining – Ashton (Facility ID: 72-03-002) shall not exceed 25.13 million bushels of grain per rolling 12-month period. On a monthly basis, the owner or operator shall:
 - (1) Record the total amount of grain received, in bushels, during the previous month; and
 - (2) Calculate and record the rolling 12-month total amount of grain received, in bushels.
- C. 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.
- D. The owner or operator shall maintain the Pulse Jet Baghouse (CE CS-1) according to the manufacturer specifications and maintenance schedule. The facility shall maintain a log of all

maintenance and inspection activities performed on the Pulse Jet Baghouse (CE CS-1). This log shall include, but is not limited to:

- (1) The date and time any inspection and/or maintenance was performed on the Pulse Jet Baghouse (CE CS-1);
 - (2) Any issues identified during the inspection and the date each issue was resolved; and,
 - (3) Any issues identified during the maintenance activities and the date each issue was resolved.
- 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 CS-1) shall maintain a pressure drop across the baghouse that is between 0.1 and 8 inches water column. The owner or operator shall establish an alarm setting for the purpose of initiating corrective action based on a pressure drop across the baghouse of less than 0.1 inch water column or a pressure drop across the baghouse of greater than 8 inches water column. This requirement shall not apply on the days that the baghouse is not in operation.
- (1) The owner or operator shall record the baghouse pressure drop in inches of water column on a continuous basis.
 - (2) If the pressure drop deviates outside the range specified in Condition F., the owner or operator shall investigate the baghouse and make corrections to baghouse. The owner or operator shall maintain a record of all corrective actions taken.
- G. The owner or operator shall only operate the Grain Receiving Equipment (EP SV1) between the hours of 5:00 AM and 11:00 PM each day. On a daily basis, the owner and operator shall record the date, start up time, and shutdown time of the Grain Receiving Equipment (EP SV1).

Authority for Requirement: DNR Construction Permit 03-A-357-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 85

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 23,450

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-357-S5

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required?⁽¹⁾ Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

⁽¹⁾A Facility O&M plan was required; however, the construction permit has included sufficient monitoring for the baghouse, replacing the Facility O&M Plan.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV2

Associated Equipment

Associated Emission Unit ID Number: EU-4
Emissions Control Equipment ID Number: CS-2
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-4
Emission Unit Description: Grain Scalper, Conveyor, Surge Bin
Raw Material/Fuel: Grain
Rated Capacity: 230 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 03-A-358-S1
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.107 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-358-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.107 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-358-S1
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

A. The owner or operator shall inspect and maintain the baghouse (CE CS-2) according to specifications and maintenance schedule

Reporting and Recordkeeping

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

- A. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of baghouse (CE CS-2).

Authority for Requirement: DNR Construction Permit 03-A-358-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 2500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Obstructed

Authority for Requirement: DNR Construction Permit 03-A-358-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SV3, SV18, SV19

Associated Equipment

Associated Emission Unit ID Numbers: EU-5, EU-22, EU-23
Emissions Control Equipment ID Number: CS-3, CS-19, CS-20
Emissions Control Equipment Description: Baghouses
Continuous Emissions Monitors ID Numbers: None

Emission Point	Emission Unit	Emission Unit Description	Maximum Rated Capacity	Control Equipment (CE) ID	Construction Permit
SV3	EU-5	Hammermill #1	25 tons/hr	CS-3	22-A-028
SV18	EU-22	Hammermill #2	25 tons/hr	CS-19	22-A-029
SV19	EU-23	Hammermill #3	25 tons/hr	CS-20	22-A-030

Raw Material: Grain

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permits 22-A-028, 22-A-029, 22-A-030
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 Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.12 lb/hr

Authority for Requirement: DNR Construction Permits 22-A-028, 22-A-029, 22-A-030

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.12 lb/hr

Authority for Requirement: DNR Construction Permits 22-A-028, 22-A-029, 22-A-030

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.12 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 22-A-028, 22-A-029, 22-A-030
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.

- A. POET Biorefining – Ashton (Facility ID: 72-03-002) is required to perform stack testing on the RTO (EP SV6) if the grain processed by these hammermills (EU-5, EU-22, EU-23, and EU-27) exceeds, by weight, 30% sorghum or 10% wheat, based on a 3-hour average. The facility shall complete a stack test on the RTO (EP-SV6) within 90 days after exceeding the grain content percentage, by weight.
 - (1) The owner or operator shall keep records of the amount and type of each of grain processed in these hammermills (EU-5, EU-22, EU-23, and EU-27) on a daily basis, and calculate the 3-hr average weight percentage of sorghum and wheat.
 - (2) If these hammermills (EU-5, EU-22, EU-23, and EU-27) process more than 30% sorghum (by weight) or more than 10% wheat (by weight), the facility shall notify the DNR within five (5) working days.
- B. The baghouses (CE CS-3, CS-19, CS-20, CS-21, and CS-22) shall maintain a pressure drop across each baghouse that is between 0.1 and 8 inches water column. The owner or operator shall establish an alarm setting for the purpose of initiating corrective action based on a pressure drop across each baghouse of less than 0.1 inch water column or a pressure drop across each baghouse of greater than 8 inches water column. This requirement shall not apply on the days that the baghouses are not in operation.
 - (1) The owner or operator shall record the baghouse pressure drop in inches of water column on a continuous basis.
 - (2) If the pressure drop deviates outside the range specified in Condition B., the owner or operator shall investigate the baghouse and make corrections to baghouse. The owner or operator shall maintain a record of all corrective actions taken.
- C. The owner or operator shall conduct a visible emissions observation on EP-SV3, EP-SV18, EP-SV19, and EP-SV22 once per calendar week.
 - (1) If the owner or operator observes visible emissions from EP-SV3, EP-SV18, EP-SV19, or EP-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.
- D. The owner or operator shall operate and maintain the baghouses (CE CS-3, CS-19, CS-20, CS-21, and CS-22) according to the manufacturer’s specifications and maintenance schedule. The facility shall maintain a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
 - (1) The date and time any inspection and/or maintenance was performed on the emission units and/or control equipment;
 - (2) Any issues identified during the inspection and the date each issue was resolved; and,
 - (3) Any issues identified during the maintenance activities and the date each issue was resolved.

Authority for Requirement: DNR Construction Permits 22-A-028, 22-A-029, 22-A-030

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

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

Stack Opening, (inches): 20 x 20

Exhaust Flow Rate (acfm): 9,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 22-A-028, 22-A-029, 22-A-030

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV22

Associated Equipment

Associated Emission Unit ID Number: EU-27, EU-31
Emissions Control Equipment ID Number: CS-21, CS-22
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-27, EU-31
Emission Unit Description: Hammermill #4, Flour Conveyor
Raw Material/Fuel: Grain
Rated Capacity: 22 tons/hr (Hammermill); 100 tons/hr (Flour Conveyor)

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 22-A-031
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): 0.16 lb/hr
Authority for Requirement: DNR Construction Permit 22-A-031

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.16 lb/hr
Authority for Requirement: DNR Construction Permit 22-A-031

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.16 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 22-A-031
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.

- A. POET Biorefining – Ashton (Facility ID: 72-03-002) is required to perform stack testing on the RTO (EP SV6) if the grain processed by these hammermills (EU-5, EU-22, EU-23, and EU-27) exceeds, by weight, 30% sorghum or 10% wheat, based on a 3-hour average. The facility shall complete a stack test on the RTO (EP-SV6) within 90 days after exceeding the grain content percentage, by weight.
 - (1) The owner or operator shall keep records of the amount and type of each of grain processed in these hammermills (EU-5, EU-22, EU-23, and EU-27) on a daily basis, and calculate the 3-hr average weight percentage of sorghum and wheat.
 - (2) If these hammermills (EU-5, EU-22, EU-23, and EU-27) process more than 30% sorghum (by weight) or more than 10% wheat (by weight), the facility shall notify the DNR within five (5) working days.
- B. The baghouses (CE CS-3, CS-19, CS-20, CS-21, and CS-22) shall maintain a pressure drop across each baghouse that is between 0.1 and 8 inches water column. The owner or operator shall establish an alarm setting for the purpose of initiating corrective action based on a pressure drop across each baghouse of less than 0.1 inch water column or a pressure drop across each baghouse of greater than 8 inches water column. This requirement shall not apply on the days that the baghouses are not in operation.
 - (1) The owner or operator shall record the baghouse pressure drop in inches of water column on a continuous basis.
 - (2) If the pressure drop deviates outside the range specified in Condition B., the owner or operator shall investigate the baghouse and make corrections to baghouse. The owner or operator shall maintain a record of all corrective actions taken.
- C. The owner or operator shall conduct a visible emissions observation on EP-SV3, EP-SV18, EP-SV19, and EP-SV22 once per calendar week.
 - (1) If the owner or operator observes visible emissions from EP-SV3, EP-SV18, EP-SV19, or EP-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.
- D. The owner or operator shall operate and maintain the baghouses (CE CS-3, CS-19, CS-20, CS-21, and CS-22) according to the manufacturer’s specifications and maintenance schedule. The facility shall maintain a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
 - (1) The date and time any inspection and/or maintenance was performed on the emission units and/or control equipment;
 - (2) Any issues identified during the inspection and the date each issue was resolved; and,
 - (3) Any issues identified during the maintenance activities and the date each issue was resolved.

Authority for Requirement: DNR Construction Permit 22-A-031

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20
Stack Opening, (inches): 20 x 20
Exhaust Flow Rate (dscfm): 12,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 22-A-031

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV17

Associated Equipment

Associated Emission Unit ID Number: EU-20
Emissions Control Equipment ID Number: CS-18
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-20
Emission Unit Description: Pneumatic Flour Conveyor/Receiver
Raw Material/Fuel: Flour
Rated Capacity: 100 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 03-A-372-S1
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM_{2.5})
Emission Limit(s): 0.18 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-372-S1

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.18 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-372-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.18 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-372-S1
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.

- A. The owner or operator shall maintain the Pulse Jet Baghouse (CE CS-18) according to the manufacturer specifications and maintenance schedule. The facility shall maintain a log of all maintenance and inspection activities performed on the Pulse Jet Baghouse (CE CS-18). This log shall include, but is not limited to:
 - (1) The date and time any inspection and/or maintenance was performed on the Pulse Jet Baghouse (CE CS-18);
 - (2) Any issues identified during the inspection and the date each issue was resolved; and,
 - (3) Any issues identified during the maintenance activities and the date each issue was resolved.

Authority for Requirement: DNR Construction Permit 03-A-372-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 50

Stack Opening, (inches): 12 x 12

Exhaust Flow Rate (scfm): 4300

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 03-A-372-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV4 (RTO Bypass)

Associated Equipment

Associated Emission Unit ID Numbers: EU-6, EU-7
 Emissions Control Equipment ID Numbers: CS-4
 Emissions Control Equipment Description: Scrubber
 Continuous Emissions Monitors ID Numbers: None

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU-6	6 Batch Mash Fermenters	Mash	300 tons/hr (Mash); 580,000 gallons (each)	03-A-360-S13
	2 Beer Wells	Beer	692,000 gallons (each)	
	Yeast Propagation Tank		20,000 gallons	
EU-7	Distillation Process: Evaporator, strippers, 3 Sieves, Rectifier	Beer	50,000 gal/hr (Feed Rate)	

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 03-A-360-S13
 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 Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.50 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-360-S13

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.50 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-360-S13

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.50 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-360-S13
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 34.50 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-360-S13

Pollutant: Single HAP
Emission Limit(s): 4.0 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-360-S13

Pollutant: Total HAPs
Emission Limit(s): 4.27 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-360-S13

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 scrubber (CE CS-4) shall maintain an average pressure drop across the wet scrubber that is between 1- 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 1 inch water column or a pressure drop across the wet scrubber of greater than 12 inches water column. This requirement shall not apply on the days that the scrubber is not in operation.
 - (1) The owner or operator shall record the scrubber pressure drop in inches of water column on a continuous basis.
 - (2) 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.
 - (3) If the pressure drop deviates outside the range specified in Condition A, the owner or operator shall investigate the scrubber (CE-CS-4) and make corrections to the scrubber (CE-CS-4). The owner or operator shall maintain a record of all corrective actions taken.
- B. The scrubber (CE-CS-4) 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 Permit Condition 1.
 - (1) The owner or operator shall record the scrubber liquid (water) flow rate in gallons per minute on a continuous basis.
 - (2) If the flow rate deviates below the minimum flow rate required then record the time, date and actions taken to correct the situation and when the flow rate is back above the minimum flow rate required.

- C. Any additive added to the scrubber liquid to enhance the efficiency of the scrubber shall be added at a rate greater than or equal to the rate recorded during the most recent performance test that demonstrated compliance with all applicable emission limits as specified 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 Permit Condition 1.
- (1) The owner or operator shall record the type of additive used to demonstrate compliance with the applicable emission limits as specified in Permit Condition 1.
 - (2) The owner or operator shall record the rate (in gallons/minute) of additive added (additive feed rate) to the scrubber liquid on a continuous basis.
 - (3) If the additive feed rate deviates below the rate required (i.e., additive feed rate during most recent performance test that demonstrated compliance), then record the time, date and actions taken to correct the situation and also when the additive feed rate is greater than or equal to the required additive feed rate.
- D. The owner or operator shall maintain onsite a copy of the most recent performance test that demonstrated compliance with the emission limits in Permit Condition 1 along with the recorded scrubber (CE-CS-4) pressure drop, liquor flow rate, and liquid additive feed rate.
- E. The owner or operator may bypass the emissions normally vented through emission point EP-SV6 through emission point EP-SV4 for a maximum of 2,500 hours per twelve-month rolling period.
- (1) The owner or operator shall record monthly the number of hours that emissions bypass emission point EP-SV6 and are released through emission point EP-SV4.
 - (2) The owner or operator shall monthly calculate and record the rolling 12-month total number of hours that emissions bypass emission point EP-SV6 and are released through emission point EP-SV4.
- F. The owner or operator shall operate and maintain the Scrubber (CE-CS-4) according to the manufacturer specifications and maintenance schedule. The facility shall maintain a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
- (1) The date and time any inspection and/or maintenance was performed on the control equipment;
 - (2) Any issues identified during the inspection and the date each issue was resolved; and,
 - (3) Any issues identified during the maintenance activities and the date each issue was resolved.

Authority for Requirement: DNR Construction Permit 03-A-360-S13

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): 7,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-360-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 thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Pollutant – VOC

Stack Test to be Completed by – August 31, 2024⁽¹⁾⁽²⁾

Test Method - 40 CFR 63, Appendix A, Method 320 or
40 CFR 60, Appendix A, Method 18

Authority for Requirement: DNR Construction Permit 03-A-360-S13

Pollutant – HAP

Stack Test to be Completed by – August 31, 2024⁽¹⁾⁽²⁾⁽³⁾

Test Method - 40 CFR 63, Appendix A, Method 320 or
40 CFR 60, Appendix A, Method 18

Authority for Requirement: DNR Construction Permit 03-A-360-S13

- ⁽¹⁾ Stack testing shall be conducted in a manner to verify compliance with all emission limitations with all equipment operating in a worst-case scenario. The most recent test was August 25, 2021. Additional performance testing shall be conducted once every three years with a minimum of one calendar year between tests and testing shall be completed during the months of June, July, or August.
- ⁽²⁾ The performance testing frequency shall be increased permanently to once every calendar year if the bypass hours for this emission point exceed 500 hours per twelve-month rolling period. The first test shall be conducted within one calendar year of exceeding this threshold, and all tests shall be completed during the months of June, July, or August. If three consecutive tests demonstrate emissions that are less than 90% of the applicable emissions limits, the owner or operator may submit a request to reduce the frequency of the stack testing.
- ⁽³⁾ Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically. All HAP compounds which test below detection limits shall be assumed to be emitting at a rate equal to the detection limit.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required?⁽¹⁾ Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

⁽¹⁾A Facility O&M plan was required; however, the construction permit has included sufficient monitoring, replacing the Facility O&M Plan.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV6

Associated Equipment

Emission Unit	Emissions Control Equipment Description and ID	Continuous Emissions Monitors ID
EU-6	Scrubber (CE-CS-4),	None
EU-7	Regenerative Thermal Oxidizer (CE-CS-8); 40 MMbtu/hr max	
EU-8	Multi-cyclones (CE-CS-6 & CE-CS-7)	
EU-9	Regenerative Thermal Oxidizer (CE-CS-8); 40 MMbtu/hr max	
EU-14	Regenerative Thermal Oxidizer (CE-CS-8); 40 MMbtu/hr max	
EU-15		
EU-16		
EU-17		
EU-26		
EU-30		

Emission Unit	Emissions Unit Description	Raw Material/Fuel	Rated Capacity
EU-6	6 Batch Fermenters	Mash	300 tons/hr; 580,000 gallons (each)
	2 Beer Wells	Beer	692,000 gallons (each)
	Yeast Propagation Tank	Beer	20,000 gallons
EU-7	Distillation Process: Evaporator, Strippers, 3 Sieves, Rectifier	Beer	50,000 gals/hr (Feed rate)
EU-8	DDGS Dryer #1	DDGS	23 tons/hr; 60 MMBtu/hr
EU-9	DDGS Dryer #2	DDGS	23 tons/hr; 60 MMBtu/hr
EU-14	Centrifuge #1	Whole Stillage	27 tons/hr
EU-15	Centrifuge #2	Whole Stillage	27 tons/hr
EU-16	Centrifuge #3	Whole Stillage	27 tons/hr
EU-17	Centrifuge #4	Whole Stillage	27 tons/hr
EU-26	Centrifuge #5	Whole Stillage	27 tons/hr
EU-30	Corn Oil Separation System	Syrup	140 gal/min

Authority for Requirement: DNR Construction Permit 03-A-362-S12

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 03-A-362-S12
567C 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: Opacity

Emission Limit(s): 40%

Authority for Requirement: DNR Construction Permit 03-A-362-S12

⁽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): 15.0 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-362-S12
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 15.0 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-362-S12

Pollutant: Particulate Matter (PM)

Emission Limit(s): 15.0 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-362-S12
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppm

Authority for Requirement: DNR Construction Permit 03-A-362-S12
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 10.0 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-362-S12

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 12.75 lb/hr; 53.22 lb/hr⁽¹⁾

Authority for Requirement: DNR Construction Permit 03-A-362-S12

⁽¹⁾ 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 250 hours per 12-month rolling period.

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 10.0 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-362-S12

Pollutant: Single HAP

Emission Limit(s): 0.66 lb/hr; 1.0 lb/hr⁽¹⁾

Authority for Requirement: DNR Construction Permit 03-A-362-S12

⁽¹⁾ 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 250 hours per 12-month rolling period.

Pollutant: Total HAP

Emission Limit(s): 1.52 lb/hr; 1.80 lb/hr⁽¹⁾

Authority for Requirement: DNR Construction Permit 03-A-362-S12

⁽¹⁾ 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 250 hours per 12-month rolling period.

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 owner or operator shall maintain a 3-hour average operating temperature of the Regenerative Thermal Oxidizer (RTO) at no less than 50 degrees Fahrenheit below the average operating temperature recorded for the RTO during the most recent performance test that demonstrated compliance with the emission limits as specified in Permit Condition 1.
 - (1) The owner or operator shall properly operate and maintain equipment to continuously monitor the temperature of the Regenerative 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.
 - (2) 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.
 - (3) 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.
 - (4) The owner or operator shall operate the Regenerative Thermal Oxidizer at all times the dryers and/or non-bypassed fermentation equipment is used.
 - (5) The owner or operator shall keep records of the frequency and amount of time the

Regenerative Thermal Oxidizer malfunctions and record estimates of emissions during said malfunctions.

- B. The scrubber (CE CS-4) shall maintain an average pressure drop across the wet scrubber that is between 1- 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 1 inch water column or a pressure drop across the wet scrubber of greater than 12 inches water column. This requirement shall not apply on the days that the scrubber is not in operation.
 - (1) The owner or operator shall record the scrubber pressure drop in inches of water column on a continuous basis.
 - (2) 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.
 - (3) If the pressure drop deviates outside the range specified in Condition B., the owner or operator shall investigate the scrubber (CE CS-4) and make corrections to the scrubber (CE CS-4). The owner or operator shall maintain a record of all corrective actions taken.
- C. The scrubber (CE CS-4) 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 Permit Emission Limits.
 - (1) The owner or operator shall record the scrubber liquid (water) flow rate in gallons per minute on a continuous basis.
 - (2) 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.
- D. Any additive added to the scrubber liquid to enhance the efficiency of the scrubber shall be added at a rate greater than or equal to the rate recorded during the most recent performance test that demonstrated compliance with all applicable emission limits as specified 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 Permit Emission Limits section.
 - (1) The owner or operator shall record the type of additive used to demonstrate compliance with the applicable emission limits as specified in Permit Emission Limits section.
 - (2) The owner or operator shall record the rate (in gallons/minute) of additive added (additive feed rate) to the scrubber liquid on a continuous basis.
 - (3) If the additive feed rate deviates below the rate required (i.e., additive feed rate during most recent performance test that demonstrated compliance), then record the time, date and actions taken to correct the situation and also when the additive feed rate is greater than or equal to the required additive feed rate.
- E. The owner or operator shall maintain onsite a copy of the most recent performance test(s) that demonstrated compliance with the emission limits in Permit Emission Limits along with the recorded RTO (CE CS-8) operating temperature and the recorded scrubber (CE CS-4) pressure drop, liquor flow rate, and liquid additive feed rate.

- F. The owner or operator may bypass the scrubber (CE CS-4) and vent emissions directly through the RTO (CE CS-8) for a maximum of 250 hours per twelve-month rolling period.
 - (1) The owner or operator shall record monthly the number of hours that emissions bypass the scrubber (CE CS-4) and vent emissions directly through the RTO (CE CS-8).
 - (2) The owner or operator shall calculate and record the rolling 12-month total number of hours that emissions bypass the scrubber (CE CS-4) and vent emissions directly through the RTO (CE CS-8).
- G. The owner or operator shall operate the dryers and regenerative thermal oxidizer (CE CS-8) combusting natural gas regenerative thermal oxidizer (CE CS-8) combusting natural gas and/or process off-gases only.
 - (1) The owner or operator shall maintain records of fuels fired in Dryer #1 (EU-8), Dryer #2 (EU-9) and the Regenerative Thermal Oxidizer (CE CS-8).
- H. The owner or operator shall operate the regenerative thermal oxidizer (CE CS-8) at all times that the emission units are operating except for bypass periods.
 - (1) The owner or operator shall keep records of the frequency and amount of time the regenerative thermal oxidizer (CE CS-8) malfunctions during drying operations, and estimate the emissions emitted during said malfunctions.
- I. The owner or operator shall operate and maintain the Scrubber (CE CS-4), Multi Cyclone (CE CS-6), Multi Cyclone (CE CS-7), and Regenerative Thermal Oxidizer (CE CS-8) according to the manufacturer specifications and maintenance schedule. The facility shall maintain a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
 - (1) The date and time any inspection and/or maintenance was performed on the emission units and/or control equipment;
 - (2) Any issues identified during the inspection and the date each issue was resolved; and,
 - (3) Any issues identified during the maintenance activities and the date each issue was resolved.

Authority for Requirement: DNR Construction Permit 03-A-362-S12

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 80

Exhaust Flow Rate (scfm): 84,000

Exhaust Temperature (°F): 335

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-362-S12

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

Monitoring Requirements

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

Stack Testing:

Pollutant: Particulate Matter (PM)

Stack Test to be Completed by: August 31, 2025⁽¹⁾⁽²⁾

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

40 CFR 51, Appendix M Method 202

Authority for Requirement: DNR Construction Permit 03-A-362-S12

567 IAC 22.108(3)

⁽¹⁾ Additional stack testing under normal operating conditions (not during scrubber bypass) will be triggered after each of the following:

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

⁽²⁾ Performance testing shall be conducted once every two years with a minimum of one year between tests. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits with all equipment operating under normal conditions (not during scrubber bypass). Testing shall be completed during the months of June, July, or August and the next stack test shall be completed no later than August 31, 2025. If four consecutive tests demonstrate emissions that are less than 90% of the applicable emissions limits, the owner or operator may submit a request to reduce the frequency of the stack testing to once every three years. The stack testing completed on 11/20/2018, 8/25/2021, and 6/6/2023 are counted in the four consecutive tests for this requirement.

Pollutant: NO_x

Stack Test to be Completed by: August 31, 2024⁽¹⁾

Test Method: 40 CFR 60, Appendix A, Method 7E

Authority for Requirement: DNR Construction Permit 03-A-362-S12

567 IAC 22.108(3)

⁽¹⁾ Performance testing shall be conducted once every three years with a minimum of one year between tests. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits with all equipment operating under normal conditions (not during scrubber bypass). The stack tests for NO_x and CO shall be conducted simultaneously. The facility shall use those tests that demonstrate compliance with the permitted emission limits in permit Condition 1 to establish the scrubber water flow rate, process water flow rate, and the additive feed rate. Testing shall be completed during the months of June, July, or August and the next stack test shall be completed no later than August 31, 2025.

Pollutant: VOC⁽¹⁾

Stack Test to be Completed by: August 31, 2024⁽²⁾⁽³⁾⁽⁴⁾

Test Method: 40 CFR 63, Appendix A, Method 320 or

40 CFR 60, Appendix A, Method 18

Authority for Requirement: DNR Construction Permit 03-A-362-S12
567 IAC 22.108(3)

(1) VOC compliance may be determined using the sum of the Method 320 or Method 18 results.

(2) Additional stack testing under normal operating conditions (not during scrubber bypass) will be triggered after each of the following:

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

(3) Performance testing shall be required under scrubber bypass conditions should the facility exceed 100 hours of operation with the scrubber bypassed in any twelve-month rolling period. The test shall be conducted within twelve months after the facility has exceeded the 100 hours of scrubber bypass operation. The facility is allowed to conduct performance testing prior to exceeding 100 hours with the scrubber bypassed in any twelve-month rolling period to demonstrate compliance with testing requirements.

(4) Performance testing shall be conducted once every three years with a minimum of one year between tests. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits with all equipment operating under normal conditions (not during scrubber bypass). The stack tests for NO_x and CO shall be conducted simultaneously. The facility shall use those tests that demonstrate compliance with the permitted emission limits in permit Condition 1 to establish the scrubber water flow rate, process water flow rate, and the additive feed rate. Testing shall be completed during the months of June, July, or August and the next stack test shall be completed no later than August 31, 2025.

Pollutant: CO

Stack Test to be Completed by: August 31, 2024⁽¹⁾⁽²⁾

Test Method: 40 CFR 60, Appendix A, Method 10

Authority for Requirement: DNR Construction Permit 03-A-362-S12
567 IAC 22.108(3)

(1) Additional stack testing under normal operating conditions (not during scrubber bypass) will be triggered after each of the following:

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

(2) Performance testing shall be conducted once every three years with a minimum of one year between tests. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits with all equipment operating under normal conditions (not during scrubber bypass). The stack tests for NO_x and CO shall be conducted simultaneously. The facility shall use those tests that demonstrate compliance with the permitted emission limits in permit Condition 1 to establish the scrubber water flow rate, process water flow rate, and the additive feed rate. Testing shall be completed during the months of June, July, or August and the next stack test shall be completed no later than August 31, 2025.

Pollutant: HAP⁽¹⁾

Stack Test to be Completed by: August 31, 2024⁽²⁾⁽³⁾⁽⁴⁾

Test Method: 40 CFR 63, Appendix A, Method 320 or
40 CFR 60, Appendix A, Method 18

Authority for Requirement: DNR Construction Permit 03-A-362-S12
567 IAC 22.108(3)

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

(2) Additional stack testing under normal operating conditions (not during scrubber bypass) will be triggered after each of the following:

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

⁽¹⁾ Performance testing shall be required under scrubber bypass conditions should the facility exceed 100 hours of operation with the scrubber bypassed in any twelve-month rolling period. The test shall be conducted within twelve months after the facility has exceeded the 100 hours of scrubber bypass operation. The facility is allowed to conduct performance testing prior to exceeding 100 hours with the scrubber bypassed in any twelve-month rolling period to demonstrate compliance with testing requirements.

⁽²⁾ Performance testing shall be conducted once every three years with a minimum of one year between tests. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits with all equipment operating under normal conditions (not during scrubber bypass). The stack tests for NO_x and CO shall be conducted simultaneously. The facility shall use those tests that demonstrate compliance with the permitted emission limits in permit Condition 1 to establish the scrubber water flow rate, process water flow rate, and the additive feed rate. Testing shall be completed during the months of June, July, or August and the next stack test shall be completed no later than August 31, 2023.

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?⁽¹⁾ Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

⁽¹⁾A Facility O&M plan was required; however, the construction permit has included sufficient monitoring, replacing the Facility O&M Plan.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV7

Associated Equipment

Associated Emission Unit ID Number: EU-11
Emissions Control Equipment ID Number: CS-9
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-11
Emission Unit Description: DDGS Fluid Bed Cooler
Raw Material/Fuel: DDGS
Rated Capacity: 23 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 03-A-363-S5
567C 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 Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{2.5})
Emission Limit(s): 0.28 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-363-S5

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.28 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-363-S5

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.28 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-363-S5
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 6.0 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-363-S5

Pollutant: Single HAP
Emission Limit(s): 0.35 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-363-S5

Pollutant: Total HAP
Emission Limit(s): 1.0 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-363-S5

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 owner or operator shall operate and maintain the Baghouse (CE-CS-9) according to the manufacturer's specifications and maintenance schedule. The facility shall maintain a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
 - (1) The date and time any inspection and/or maintenance was performed on the control equipment;
 - (2) Any issues identified during the inspection and the date each issue was resolved; and,
 - (3) Any issues identified during the maintenance activities and the date each issue was resolved.
- B. The owner or operator shall conduct a visible emissions observation on EP-SV7 once per calendar week.
 - (1) If the owner or operator observes visible emissions from EP SV7, 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 CS-9) shall maintain a pressure drop across the baghouse that is between 0.1 and 8 inches water column. The owner or operator shall establish an alarm setting for the purpose of initiating corrective action based on a pressure drop across the baghouse of less than 0.1 inch water column or a pressure drop across the baghouse of greater than 8 inches water column. This requirement shall not apply on the days that the baghouse is not in operation.
 - (1) The owner or operator shall record the baghouse pressure drop in inches of water column on a continuous basis.
 - (2) If the pressure drop deviates outside the range specified in Condition C., the owner or operator shall investigate the baghouse and make corrections to baghouse. The owner or operator shall maintain a record of all corrective actions taken.

Authority for Requirement: DNR Construction Permit 03-A-363-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 70
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (dscfm): 21,400
Exhaust Temperature (°F): 100
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-363-S5

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required?⁽¹⁾ Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

⁽¹⁾A Facility O&M plan was required; however, the construction permit has included sufficient monitoring, replacing the Facility O&M Plan.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV8

Associated Equipment

Associated Emission Unit ID Numbers: EU-12
Emissions Control Equipment ID Number: CS-10
Emissions Control Equipment Description: Filter
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-12
Emission Unit Description: DDGS Storage Silo
Raw Material/Fuel: DDGS
Rated Capacity: 23 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 03-A-364
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 (PM₁₀)
Emission Limit(s): 0.171 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-364

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.171 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-364
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

A. The owner or operator shall keep a log of control equipment inspection and maintenance.

Authority for Requirement: DNR Construction Permit 03-A-364

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 112

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

Exhaust Flow Rate (scfm): 4000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Obstructed, or Horizontal

Authority for Requirement: DNR Construction Permit 03-A-364

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV9

Associated Equipment

Associated Emission Unit ID Numbers: EU-13
Emissions Control Equipment ID Number: CS-11
Emissions Control Equipment Description: Filter
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-13
Emission Unit Description: DDGS Storage Silo Bypass
Raw Material/Fuel: DDGS
Rated Capacity: 23 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 03-A-365
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 (PM₁₀)
Emission Limit(s): 0.171 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-365

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.171 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-365
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

A. The owner or operator shall keep a log of control equipment inspection and maintenance.

Authority for Requirement: DNR Construction Permit 03-A-365

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

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

Exhaust Flow Rate (scfm): 4000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-365

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV11

Associated Equipment

Associated Emission Unit ID Numbers: EU-TK-001
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Internal Floating Roof
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: 180,000 gallons

Applicable Requirements

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

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

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

Authority for Requirement: DNR Construction Permit 03-A-367

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

A. The owner or operator keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.

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

Authority for Requirement: DNR Construction Permit 03-A-367

New Source Performance Standards (NSPS) Applicability

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for Standards of Performance for Volatile Organic Liquid Storage Vessel (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (40 CFR Part 60 Subpart Kb). This equipment is also subject to Subpart A: General Provisions.

Authority for Requirement: DNR Construction Permit 03-A-367
40 CFR Part 60 Subpart Kb

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for 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 Subpart VVa). This equipment is also subject to Subpart A: General Provisions.

Authority for Requirement: 40 CFR Part 60 Subpart VVa
567 IAC 23.1(4)"nn"

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): NA – Vent
Exhaust Temperature (°F): Ambient
Discharge Style: Downwards
Authority for Requirement: DNR Construction Permit 03-A-367

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV12

Associated Equipment

Associated Emission Unit ID Numbers: EU-TK-002
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Internal Floating Roof
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-TK-002
Emission Unit Description: Denaturant Storage Tank
Raw Material/Fuel: Denaturant
Rated Capacity: 60,000 gallons

Applicable Requirements

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

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

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

Operational Limits & Requirements

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

Operating Limits

A. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR 60.112b(a)(1), and inspect as required in 50 CFR 60.113b(a).

Reporting and Recordkeeping

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

A. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.

B. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR 60.115b through 60.116b.

Authority for Requirement: DNR Construction Permit 03-A-368

New Source Performance Standards (NSPS) Applicability

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for Standards of Performance for Volatile Organic Liquid Storage Vessel (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (40 CFR Part 60 Subpart Kb). This equipment is also subject to Subpart A: General Provisions.

Authority for Requirement: DNR Construction Permit 03-A-368
40 CFR Part 60 Subpart Kb

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for 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 Subpart VVa). This equipment is also subject to Subpart A: General Provisions.

Authority for Requirement:
40 CFR Part 60 Subpart VVa
567 IAC 23.1(4)"nn"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 21
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): NA - Vent
Exhaust Temperature (°F): Ambient
Discharge Style: Downwards
Authority for Requirement: DNR Construction Permit 03-A-368

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV13, EP-SV14

Associated Equipment

Associated Emission Unit ID Numbers: EU-TK003, EU-TK-004
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Internal Floating Roof
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-TK-003, EU-TK-004
Emission Unit Description: 200 Proof Ethanol Storage Tank
Raw Material/Fuel: Ethanol
Rated Capacity: 2,000,000 gallons (each)

Applicable Requirements

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

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

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

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

- A. Record and report as specified in 40 CFR Part 60 §60.115b(a) *Reporting and recordkeeping requirements*.
- B. Record as specified in 40 CFR Part 60 §60.116b(a), the owner or operator shall keep copies of all records required by §60.11b(b) for the life of the source.
- C. Record as specified in 40 CFR Part 60 §60.116b(b), the owner or operator shall keep readily accessible records showing the dimension of the storage vessel and analysis showing the capacity of the vessel.
- D. As specified in 40 CFR Part 60 §60.116b(c), the owner or operator shall maintain a record of the volume stored, the period of storage, and the maximum true vapor pressure of that volume during the respective storage period.

Authority for Requirement: DNR Construction Permit 03-A-369-S1, 03-A-370-S1

New Source Performance Standards (NSPS) Applicability

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for Standards of Performance for Volatile Organic Liquid Storage Vessel (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (40 CFR Part 60 Subpart Kb). This equipment is also subject to Subpart A: General Provisions.

Authority for Requirement: DNR Construction Permit 03-A-369-S1, 03-A-370-S1
40 CFR Part 60 Subpart Kb

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for 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 Subpart VVa). This equipment is also subject to Subpart A: General Provisions.

Authority for Requirement: 40 CFR Part 60 Subpart VVa
567 IAC 23.1(4)"nn"

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): NA – vent (working/breathing loss)

Exhaust Temperature (°F): Ambient

Discharge Style: Downwards

Authority for Requirement: DNR Construction Permit 03-A-369-S1, 03-A-370-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV16

Associated Equipment

Associated Emission Unit ID Numbers: EU-TK-006
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Internal Floating Roof
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-TK006
Emission Unit Description: 190 Proof Ethanol/Denaturant Storage Tank

Raw Material/Fuel: Denaturant
Rated Capacity: 180,000 gallons

Applicable Requirements

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

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

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

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

- A. Record and report as specified in 40 CFR Part 60 §60.115b(a) *Reporting and recordkeeping requirements*.
- B. Record as specified in 40 CFR Part 60 §60.116b(a), the owner or operator shall keep copies of all records required by §60.116b(b) for the life of the source.
- C. Record as specified in 40 CFR Part 60 §60.116b(b), the owner or operator shall keep readily accessible records showing the dimension of the storage vessel and analysis showing the capacity of the vessel.
- D. As specified in 40 CFR Part 60 §60.116b(c), the owner or operator shall maintain a record of the volume stored, the period of storage, and the maximum true vapor pressure of that volume during the respective storage period.

Authority for Requirement: DNR Construction Permit 03-A-371-S2
New Source Performance Standards (NSPS) Applicability

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for Standards of Performance for Volatile Organic Liquid Storage Vessel (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (40 CFR Part 60 Subpart Kb). This equipment is also subject to Subpart A: General Provisions.

Authority for Requirement: DNR Construction Permit 03-A-371-S2
40 CFR Part 60 Subpart Kb

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for 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 Subpart VVa). This equipment is also subject to Subpart A: General Provisions.

Authority for Requirement: 40 CFR Part 60 Subpart VVa
567 IAC 23.1(4)"nn"

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: Downwards
Authority for Requirement: DNR Construction Permit 03-A-371-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SVFlare

Associated Equipment

Associated Emission Unit ID Number: EU-18
Emissions Control Equipment ID Number: CE-Flare
Emissions Control Equipment Description: Flare
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-18
Emission Unit Description: Truck and Rail Loadout
Raw Material/Fuel: Denatured Ethanol
Rated Capacity: 30,000 gal/hr (Truck Loadout); 72,000 gal/hr (Rail Loadout)

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 03-A-1270-S3
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM_{2.5})
Emission Limit(s): 0.09 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-1270-S3

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.09 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-1270-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.09 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-1270-S3
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 03-A-1270-S3
567 IAC 23.3(3)"e"

Pollutant: VOC
Emission Limit(s): 20.0 tons/yr
Authority for Requirement: DNR Construction Permit 03-A-1270-S3

Pollutant: Acetaldehyde
Emission Limit(s): 0.04 tons/yr
Authority for Requirement: DNR Construction Permit 03-A-1270-S3

Pollutant: Total HAPs
Emission Limit(s): 2.40 tons/yr
Authority for Requirement: DNR Construction Permit 03-A-1270-S3

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 owner or operator shall maintain the Flare (CE Flare) according to the manufacturer specifications and maintenance schedule. The facility shall maintain a log of all maintenance and inspection activities performed on the Flare (CE Flare). This log shall include, but is not limited to:
 - (1) The date and time any inspection and/or maintenance was performed on the Flare (CE Flare);
 - (2) Any issues identified during the inspection and the date each issue was resolved; and,
 - (3) Any issues identified during the maintenance activities and the date each issue was resolved.
- B. The owner or operator shall load out a maximum 68.25 million gallons of undenatured and denatured ethanol by rail or truck per twelve month rolling period. On a monthly basis, the owner or operator shall:
 - (1) Record the amount of undenatured and denatured ethanol loaded out, in gallons, by rail or truck during the previous month; and
 - (2) Calculate and record the rolling 12-month total amount of undenatured and denatured ethanol loaded out, in gallons, by rail or truck.
- C. The owner or operator shall load out a maximum 20.00 million gallons of undenatured and denatured ethanol by truck per twelve month rolling period. On a monthly basis, the owner or operator shall:
 - (1) Record the amount of undenatured and denatured ethanol loaded out, in gallons, by truck during the previous month; and
 - (2) Calculate and record the rolling 12-month total amount of undenatured and denatured ethanol loaded out, in gallons, by truck.
- D. The owner or operator shall load out a maximum of 2 million gallons of undenatured and denatured ethanol by switch loading (ie, filled with denatured ethanol when the previous tank load was gasoline) per twelve month rolling period without being controlled by the flare. On a monthly basis, the owner or operator shall:
 - (1) Record the amount of undenatured and denatured ethanol switch loaded, in gallons, during the previous month; and
 - (2) Calculate and record the rolling 12-month total amount of undenatured and denatured ethanol switch loaded, in gallons

Authority for Requirement: DNR Construction Permit 03-A-1270-S3

New Source Performance Standards (NSPS) Applicability

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for 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 Subpart VVa). This equipment is also subject to Subpart A: General Provisions.

Authority for Requirement: DNR Construction Permit 03-A-1270-S3
40 CFR Part 60 Subpart VVa
567 IAC 23.1(4)"nn"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 100
Exhaust Temperature (°F): 1,400
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-1270-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required?⁽¹⁾ Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

⁽¹⁾A Facility O&M plan was required; however, the construction permit has included sufficient monitoring, replacing the Facility O&M Plan.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP-SV20

Associated Equipment

Associated Emission Unit ID Numbers: EU-21
Emissions Control Equipment ID Number: None
Emissions Control Equipment Measure: Flue Gas Recirculation
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-21
Emission Unit Description: Boiler #1
Raw Material/Fuel: Natural Gas
Rated Capacity: 100 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 03-A-1268-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.75 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-1268-S1

Pollutant: Particulate Matter (PM)

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

Authority for Requirement: DNR Construction Permit 03-A-1268-S1
567 IAC 23.3(2)"b"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 4.0 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-1268-S1

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.54 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-1268-S1

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 3.0 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-1268-S1

Operational Limits & Requirements

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

Operating Limits

A. Natural gas is the only fuel that shall be combusted in this unit.

Reporting and Recordkeeping

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

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

Authority for Requirement: DNR Construction Permit 03-A-1268-S1

New Source Performance Standards (NSPS) Applicability

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60 Subpart Dc). This equipment is also subject to Subpart A: General Provisions.

Authority for Requirement: DNR Construction Permit 03-A-1268-S1
40 CFR Part 60 Subpart Dc
567 IAC 23.1(2) "III"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 48

Exhaust Flow Rate (dscfm): 15,500

Exhaust Temperature (°F): 300

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-1268-S1

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

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV21

Associated Equipment

Associated Emission Unit ID Numbers: EU-24, EU-25
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Low NO_x Burners
Continuous Emissions Monitors ID Numbers: None

Emission Unit	Emission Unit Description	Fuel	Rated Capacity
EU-24	Gas Turbine #1 with Heat Recovery Steam Generator	Natural Gas	75,400 cf/hr
EU-25	Duct Burner		63 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 03-A-1269-S1
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 2.9 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-1269-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.9 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-1269-S1
567 IAC 23.3(2)"a"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 8.0 lb/hr; 0.015 % volume at 15% oxygen on a dry basis

Authority for Requirement: DNR Construction Permit 03-A-1269-S1
567 IAC 23.1(2)"aa"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 1.1 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-1269-S1

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 9.0 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-1269-S1

Operational Limits & Requirements

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

Operating Limits

- A. Natural gas is the only fuel that shall be combusted in these units.
- B. No fuel shall be combusted in the turbine that contains sulfur in excess of 0.8% by weight.

Reporting and Recordkeeping

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

- A. The owner or operator shall keep records of the amount of fuel combusted each day the duct burner is in use.
- B. The owner or operator shall monitor the nitrogen and sulfur contents of the fuel fired in the turbine daily, or according to a custom schedule which has been approved by EPA Region VII (40 CFR 60.334(b)(2))

Authority for Requirement: DNR Construction Permit 03-A-1269-S1

New Source Performance Standards (NSPS) Applicability

This emission units (EU-24, EU-25) are subject to the following federal regulation: New Source Performance Standards (NSPS) for Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60 Subpart Dc). These emission units are also subject to Subpart A: General Provisions.

Authority for Requirement: DNR Construction Permit 03-A-1269-S1
40 CFR Part 60 Subpart Dc
567 IAC 23.1(2) "III"

Emission unit EU-24, Gas Turbine #1, is subject to the following federal regulation: New Source Performance Standards (NSPS) for Standards of Performance for Stationary Gas Turbines (40 CFR Part 60 Subpart GG). This emission unit is also subject to Subpart A: General Provisions.

Authority for Requirement: DNR Construction Permit 03-A-1269-S1
40 CFR Part 60 Subpart GG
567 IAC 23.1(2) "aa"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 75
Stack Opening, (inches, dia.): 66
Exhaust Flow Rate (dscfm): 41,250
Exhaust Temperature (°F): 335
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-1269-S1

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV23

Associated Equipment

Associated Emission Unit ID Numbers: EU-28
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: None
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-28
Emission Unit Description: 350 kW Emergency Generator
Raw Material/Fuel: Diesel fuel oil
Rated Capacity: 25 gal/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾⁽²⁾

Authority for Requirement: DNR Construction Permit 15-A-306
567 IAC 23.3(2)"d"
567 IAC 23.1(2)"yyy"

⁽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).

⁽²⁾ Refer to emission standards and engine manufacturer's certifications in the NSPS and NESHAP Applicability section below.

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.20 grams/kW-hr⁽¹⁾

Authority for Requirement: DNR Construction Permit 15-A-306
567 IAC 23.1(2)"yyy"

⁽¹⁾ Refer to emission standards and engine manufacturer's certifications in the NSPS and NESHAP Applicability section below.

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): Refer to NSPS and NESHAP Section⁽¹⁾

Authority for Requirement: DNR Construction Permit 15-A-306
567 IAC 23.1(2)"yyy"

⁽¹⁾ Refer to emission standards and engine manufacturer's certifications in the NSPS and NESHAP Applicability section below.

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): Refer to Operating Limits Section⁽¹⁾

Authority for Requirement: DNR Construction Permit 15-A-306
567 IAC 23.1(2)"yyy"

⁽¹⁾ Refer to Operational Limits & Reporting/Record keeping Requirements section below.

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 3.5 gr/kW-hr⁽¹⁾

Authority for Requirement: DNR Construction Permit 15-A-306
567 IAC 23.1(2)"yyy"

⁽¹⁾ Refer to emission standards and engine manufacturer's certifications in the NSPS and NESHAP Applicability section below.

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. This engine is limited to burning diesel fuel oil that meets the requirements of Condition D.
- B. This engine is limited to operating a maximum of 100 hours in any rolling 12-month period.
- C. This engine is limited to operate as an emergency stationary internal combustion engine as defined in §60.4219 and in accordance with §60.4211. There is no time limit on the use of the engine in emergency situations provided that the annual hourly limit established in Condition 14. B. is not exceeded. In accordance with §60.4211, the engine is limited to operate a maximum of 100 hours per year for maintenance checks and readiness testing.

The engine is also allowed to operate up to 50 hours per year in non-emergency situations, but the 50 hours are counted toward the 100 hours provided for maintenance and testing. The 50 hours per year for non-emergency operation cannot be used to generate income for the facility to supply power to the electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. This engine is not allowed to operate as a peak shaving unit.

- D. In accordance with §60.4207(b), the diesel fuel oil burned in this engine shall meet the following specifications from 40 CFR 80.510(b) for nonroad diesel fuel:
 - (1) a maximum sulfur content of 15 ppm (0.0015%) by weight; and
 - (2) a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.
- E. In accordance with §60.4209(a), the engine shall be equipped with a non-resettable hour meter.
- F. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in §60.4211(g).

- G. In accordance with §60.4211(a), this engine shall be operated and maintained in accordance with the manufacturer's emission-related written instructions. The owner or operator may only change emission-related engine settings that are permitted by the manufacturer.
- H. The owner or operator shall maintain the following monthly records:
- (1) the number of hours that the engine operated for maintenance checks and readiness testing;
 - (2) the number of hours that the engine operated for allowed non-emergency operations;
 - (3) the total number of hours that the engine operated; and
 - (4) the rolling 12-month total amount of the number of hours that the engine operated.
- I. The owner or operator shall maintain the following annual records:
- (1) the number of hours that the engine operated for maintenance checks and readiness testing; and
 - (2) the number of hours that the engine operated for allowed non-emergency operations.
- J. The owner or operator of the engine shall comply with the requirements of condition 14(D) listed above by one of the following methods:
- (1) have the fuel supplier certify that the fuel delivered meets the definition of non-road diesel fuel as defined in 40 CFR 80.510(b);
 - (2) obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
 - (3) perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.

Authority for Requirement: DNR Construction Permit 15-A-306

New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60 Subpart III).

Authority for Requirement: DNR Construction Permit 15-A-306
40 CFR Part 60 Subpart III
567 IAC 23.1(2)"yyy"

This equipment is subject to the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (NESHAP) [40 CFR Part 63 Subpart ZZZZ].

The engine must comply with requirements of Subpart ZZZZ by meeting the requirements of NSPS Subpart III.

Authority for Requirement: DNR Construction Permit 15-A-306
40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

A. This engine is subject to 40 CFR Part 60 NSPS Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (IAC 23.1(2)“yyy”). The engine is an emergency stationary internal combustion engine that is not a fire pump engine.

(1) In accordance with §60.4211(c), the engine must be certified by its manufacturer to comply with the emissions standards for emergency engines from §60.4205 (b) and §60.4202 (a)(2). The emission standards that the engine must be certified by the manufacturer to meet are:

Pollutant	Emission Standard	Basis
Particulate Matter (PM)	0.20 grams/kW-hr	§ 89.112 Table 1
NMHC ¹ + NOx	4.0 grams/kW-hr	§ 89.112 Table 1
Carbon Monoxide (CO)	3.5 grams/kW-hr	§ 89.112 Table 1
Opacity – acceleration mode	20%	§ 89.113 (a)(1)
Opacity – lugging mode	15%	§ 89.113 (a)(2)
Opacity – peaks in acceleration or lugging modes	50%	§ 89.113 (a)(3)

⁽¹⁾ Non-methane hydrocarbon

(2) In accordance with §60.4211(c), the owner or operator must comply with the required NSPS emissions standards by purchasing an engine certified by its manufacturer to meet the applicable emission standards for the same model year and engine power. The engine must be installed and configured to the manufacturer’s specifications. Provided these requirements are satisfied, no further demonstration of compliance with the emission standards from §60.4205 (b) and §60.4202 (a)(2) is required. However, if the engine is not installed, configured, operated, and maintained according to the manufacturer’s emission-related written instructions, a compliance demonstration is required in accordance with §60.4211(g).

B. This engine is of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63, Subpart ZZZZ). The engine is a new reciprocating internal combustion engine located at an area source of HAP. In accordance with §63.6590 (c)(1), the engine must comply with the requirements of Subpart ZZZZ by meeting the requirements of NSPS subpart III. No further requirements apply to this engine under Subpart ZZZZ.

Authority for Requirement: DNR Construction Permit 15-A-306
 40 CFR Part 60 Subpart III
 567 IAC 23.1(2)“yyy”
 40 CFR Part 63 ZZZZ
 567 IAC 23.1(4)“cz”

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 9
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 993
Exhaust Temperature (°F): 975
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 15-A-306

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV24

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14	Centrifuge #1	None	Whole Stillage	27 tons/hr (each)	15-A-307-S2
EU-15	Centrifuge #2				
EU-16	Centrifuge #3				
EU-17	Centrifuge #4				
EU-26	Centrifuge #5				

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 15-A-307-S2
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 15-A-307-S2
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 3.48 lb/hr

Authority for Requirement: DNR Construction Permit 15-A-307-S2

Pollutant: Single HAP

Emission Limit(s): 0.29 lb/hr

Authority for Requirement: DNR Construction Permit 15-A-307-S2

Pollutant: Total HAP

Emission Limit(s): 0.32 lb/hr

Authority for Requirement: DNR Construction Permit 15-A-307-S2

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 owner or operator may bypass the emissions normally vented through emission point EP-SV6 through emission point EP-SV24 for a maximum of 2,500 hours per twelve-month rolling period.
 - (1) The owner or operator shall record monthly the number of hours that emissions bypass emission point EP-SV6 and are released through emission point EP-SV24.
 - (2) The owner or operator shall monthly calculate and record the rolling 12-month total number of hours that emissions bypass emission point EP SV6 and are released through emission point EP-SV24.

Authority for Requirement: DNR Construction Permit 15-A-307-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 36.5

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): 4,200

Exhaust Temperature (°F): 200

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 15-A-307-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV25

Associated Equipment

Associated Emission Unit ID Numbers: EU-30
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: None
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-30
Emission Unit Description: Corn Oil Separation System
Raw Material/Fuel: Corn Oil
Rated Capacity: 140 gal/min

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 19-A-084
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: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.01 lb/hr
Authority for Requirement: DNR Construction Permit 19-A-084

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.

New Source Performance Standards (NSPS) Applicability

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for 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 Subpart VVa). This equipment is also subject to Subpart A: General Provisions.

Authority for Requirement:

40 CFR Part 60 Subpart VVa
567 IAC 23.1(4)"nn"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40

Stack Opening, (inches, dia.): 4

Exhaust Flow Rate (scfm): 200

Exhaust Temperature (°F): 165

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 19-A-084

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

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

Associated Equipment

Associated Emission Unit ID Number: EU-F002
Emissions Control Equipment ID Number: CE-FS1
Emissions Control Equipment Description: Chemical Dust Suppression
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-F002
Emission Unit Description: Fugitive Dust from Truck Traffic
Raw Material/Fuel: NA
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: Opacity
Emission Limit(s): See Footnote⁽¹⁾
Authority for Requirement: DNR Construction Permit 05-A-402-S3
567C 23.3(2)"c"(1)

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 34.3 tons/yr ⁽¹⁾
Authority for Requirement: DNR Construction Permit 05-A-402-S3

⁽¹⁾ Emissions are calculated based on tested silt content, numbers of trucks (assuming trucks to be empty half of the miles traveled), and 1.0 miles per delivery or load out, assuming 75% control for chemical dust suppression application. See Operational Limits, Requirements, and Recordkeeping.

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 owner or operator shall apply chemical dust suppressants to the entire haul road surface area within thirty (30) days of any monthly test sample with a silt content at or above 2.0%. Regardless of silt content values, the owner or operator must apply chemical dust suppressants to the entire truck travel pathways at least once per calendar year.
- B. The owner or operator shall keep records of the number of trucks that unload/load material on a monthly basis.

- C. The owner or operator shall obtain dust samples from three (3) or more locations from the haul road (EU-F002) each month according to the procedures in *EPA AP-42 Appendix C.1: Procedures for Sampling Surface/Bulk Dust Loading*. The owner or operator shall then analyze the samples each month according to the procedures in *EPA AP-42 Appendix C.2: Procedures for Laboratory Analysis of Surface/Bulk Dust Loading Samples* to determine the silt content in the dust. The owner or operator shall record the silt content value each month and maintain records of the sample analysis. If there is a month where test samples are unobtainable due to inclement weather, the highest sampled silt content in the previous twelve (12) month period shall be used for that month. When acting under this provision, dust suppression application as specified in Condition A. is not required. The owner or operator shall denote any month where samples were not obtained and must notify the DNR if there are four (4) or more months in any 12-month rolling period where samples were not obtained.
- D. The owner or operator shall keep records of chemical dust suppressant application (date, location or suppressant application, and amount).
- E. The owner or operator shall calculate and record the monthly fugitive dust emissions according to the following formula, which uses the equations from EPA AP-42 Section 13.2.2, PM empirical constants, and assumes a mean vehicle weight of 27.5 tons, 75% dust suppression control efficiency, and an average of 1.0 miles per truck delivery or load out.

$$E = V \times 0.00166 \times \left(\frac{s}{12}\right)^{0.7}$$

Where,

E = tons PM/month

V = number of trucks each month (Condition B)

s = average of three measured surface silt content samples in percent (%) for each month (Condition C)

(e.g. 8% silt content would be s=8)

- F. The owner or operator shall calculate the 12-month rolling total of PM emissions each month by adding up the calculated monthly emissions for the previous twelve months. The owner or operator shall immediately notify the DNR if the 12-month rolling total exceeds 34.3 tons
- Authority for Requirement: DNR Construction Permit 05-A-402-S3

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-F006 (Plant-wide)

Associated Equipment

Associated Emission Unit ID Number: EU-FS2
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-FS2
Emission Unit Description: VOC Emissions from Equipment Leaks
Raw Material/Fuel: NA
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): 8.5 tons/yr
Authority for Requirement: DNR Construction Permit 05-A-401-S1

Operational Limits & Requirements

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

Operating Limits

- A. The component count shall be documented as to the number and types of components used. Components include but are not limited to valves, pumps, compressor seals, flanges, etc.
- B. The owner or operator shall follow the applicable standards of Subpart VVa, 40 CFR 60.480a through 60.489a.

Reporting and Recordkeeping

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

- A. Calculate and record the VOC emissions based on the documented component count. Update annualized VOC emission calculations as the component count varies. Emission factors shall be based on EPA document 453/R-95-017 entitled Protocol for Equipment Leak Emission Estimates.
- B. The owner or operator shall 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-401-S1

New Source Performance Standards (NSPS) Applicability

This equipment is subject to the following federal regulation: New Source Performance Standards (NSPS) for Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006.

However, 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 Subpart VVa) (§60.480a) to satisfy the requirements of NSPS Subpart VV. This facility is also subject to Subpart A - General Provisions.

Authority for Requirement: DNR Construction Permit 05-A-401-S1
40 CFR Part 60 Subpart VVa
567 IAC 23.1(2) "nn"

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-30

Associated Equipment

Associated Emission Unit ID Numbers EU-FS-3
Emissions Control Equipment ID Number: CE-12
Emissions Control Equipment Description: Mist Eliminator
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-FS-3
Emission Unit Description: Cooling Tower
Raw Material/Fuel: Water
Rated Capacity: 23,250 gal/min

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: DNR Construction Permit 05-A-400-S1
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): 1.46 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 05-A-400-S1
567 IAC 23.3(2)"a"

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 total dissolved solids (TDS) concentration of the cooling water used shall not exceed 2,500 mg/L for any single sampling event.
- B. The Mist Eliminator (CE 12) shall be designed to meet a control efficiency of 0.005% (gallons of drift per gallon of cooling water flow) or better.

- C. Chromium based, VOC containing, and HAP containing water treatment chemicals (i.e., biocides, fungicides, scale inhibitors, etc.) shall not be used in this emission unit.
- D. The owner or operator shall measure the electrical conductivity of the cooling water to determine the Total Dissolved Solids (TDS) on a continuous basis. The owner or operator is required to take (1) water sample per month over a three-month period to determine the relationship between the TDS and electrical conductivity relevant to POET Biorefining. The determined TDS/conductivity relationship and the measured electrical conductivity value shall be used to determine compliance with allowable TDS concentration.
- E. A copy of the Material Safety Data Sheet (MSDS) for each water treatment chemical used in this emission unit.

Authority for Requirement: DNR Construction Permit 05-A-400-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 31
 Stack Opening, (inches, dia.): 288 (each)
 Exhaust Flow Rate (scfm): 681,000 (each)
 Exhaust Temperature (°F): 80
 Discharge Style: Vertical Unobstructed
 Authority for Requirement: DNR Construction Permit 05-A-400-S1

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: F004

Associated Equipment

Emission Unit	Emission Unit Description	Rated Capacity	Raw Material	Construction Permit
FS4	Fugitive DDGS Loadout	120 ton/hr	Fugitive Dust	N/A
	Fugitive DDGS Flat Storage	23 ton/hr		
	Fugitive Grain Handling	700 ton/hr		

Control Equipment: None

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

Operational Limits & Requirements

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

Operation limits are not required at this time.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-F005

Associated Equipment

Associated Emission Unit ID Numbers: EU-FS5
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: None
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-FS5
Emission Unit Description: Wet Cake Production
Raw Material/Fuel: Wet Cake
Rated Capacity: 46 tons/hr

Applicable Requirements

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

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

No emission limits at this time.

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 wet cake produced out at Plant No. 72-03-002 shall not exceed 260,000 tons per rolling 12-month period.
 - (1) The owner or operator shall record the total amount, in tons, of wet cake produced at Plant No. 72-03-002 on a monthly basis.
 - (2) The owner or operator shall calculate and record the total amount, in tons, of wet cake produced at Plant No. 72-03-002 on a rolling 12-month basis.
- B. The maximum amount of DDGS produced out at Plant No. 72-03-002 shall not exceed 204,056 tons per rolling 12-month period.
 - (1) The owner or operator shall record the total amount, in tons, of DDGS produced at Plant No. 72-03-002 on a monthly basis.
 - (2) The owner or operator shall calculate and record the total amount, in tons, of DDGS produced at Plant No. 72-03-002 on a rolling 12-month basis.

Authority for Requirement: DNR Construction Permit 20-A-052

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

There are no emission point characteristics. Emissions are generated from storage of wet cake on a pad.

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) 725-9545

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

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

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

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

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

Field Office 1

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

Field Office 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

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

Field Office 6

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

Polk County Public Works Dept.

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

Linn County Public Health

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

V. Appendix

Appendix A

- A. Subpart A (40 CFR Part 60 Subpart A) – General Provisions
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-A>
- B. Subpart Dc (40 CFR Part 60 Subpart Dc) – Standards of Performance for Small Industrial, Commercial, Institutional Steam Generating Units.
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Dc>
- C. Subpart Kb (40 CFR Part 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>
- D. Subpart GG (40 CFR Part 60 Subpart GG) – Standards of Performance for Stationary Gas Turbines.
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-GG>
- E. Subpart VVa (40 CFR Part 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. Subpart IIII (40 CFR Part 60 Subpart IIII) – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-IIII>