Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility:  Green Plains Ethanol Storage, LLC (GP Shenandoah)
Facility Location:  4124 Airport Road, Shenandoah, Iowa 51601
Air Quality Operating Permit Number:  13-TV-004R1-M001
Expiration Date:  January 7, 2024
Permit Renewal Application Deadline:  July 7, 2023

EIQ Number:  92-6961
Facility File Number:  36-10-001

Responsible Official
Name:  Jeremy DuMond
Title:  Vice President of EHSS
Mailing Address:  1811 Aksarben Drive, Omaha, NE 68106
Phone #:  (402) 952-4850

Permit Contact Person for the Facility
Name:  Robert Sheeder
Title:  Consultant
Mailing Address:  301 S. 9th Street, Lincoln, NE 68508
Phone #:  (402) 489-1111

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, Supervisor of Air Operating Permits Section  Date
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<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
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<tbody>
<tr>
<td>acfm</td>
<td>actual cubic feet per minute</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulation</td>
</tr>
<tr>
<td>CE</td>
<td>control equipment</td>
</tr>
<tr>
<td>CEM</td>
<td>continuous emission monitor</td>
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<tr>
<td>°F</td>
<td>degrees Fahrenheit</td>
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<tr>
<td>EIQ</td>
<td>emissions inventory questionnaire</td>
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<tr>
<td>EP</td>
<td>emission point</td>
</tr>
<tr>
<td>EU</td>
<td>emission unit</td>
</tr>
<tr>
<td>gr./dscf</td>
<td>grains per dry standard cubic foot</td>
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<tr>
<td>IAC</td>
<td>Iowa Administrative Code</td>
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<tr>
<td>DNR</td>
<td>Iowa Department of Natural Resources</td>
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<tr>
<td>MVAC</td>
<td>motor vehicle air conditioner</td>
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<tr>
<td>NAICS</td>
<td>North American Industry Classification System</td>
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<tr>
<td>NSPS</td>
<td>new source performance standard</td>
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<tr>
<td>NESHAP</td>
<td>National Emission Standards for Hazardous Air Pollutants</td>
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<tr>
<td>ppmv</td>
<td>parts per million by volume</td>
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<tr>
<td>lb./hr</td>
<td>pounds per hour</td>
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<tr>
<td>lb./MMBtu</td>
<td>pounds per million British thermal units</td>
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<tr>
<td>SCC</td>
<td>Source Classification Codes</td>
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<tr>
<td>scfm</td>
<td>standard cubic feet per minute</td>
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<td>SIC</td>
<td>Standard Industrial Classification</td>
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<tr>
<td>TPY</td>
<td>tons per year</td>
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<td>USEPA</td>
<td>United States Environmental Protection Agency</td>
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**Pollutants**

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<td>PM</td>
<td>particulate matter</td>
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<tr>
<td>PM₁₀</td>
<td>particulate matter ten microns or less in diameter</td>
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<tr>
<td>SO₂</td>
<td>sulfur dioxide</td>
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<td>NOₓ</td>
<td>nitrogen oxides</td>
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<td>VOC</td>
<td>volatile organic compound</td>
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<tr>
<td>CO</td>
<td>carbon monoxide</td>
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<td>HAP</td>
<td>hazardous air pollutant</td>
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# I. Facility Description and Equipment List

**Facility Name:** Green Plains Shenandoah, LLC  
**Permit Number:** 13-TV-004R1-M001  

Facility Description: Industrial Organic Chemicals/Ethanol Production (SIC 2869)

<table>
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<th>Emission Unit Description</th>
<th>DNR Construction Permit Number</th>
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<td>T-EIA01</td>
<td>Gasoline Tank (150 gallon)</td>
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### Insignificant Activities Equipment List

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<td>LI-8411</td>
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<td>LI-6801</td>
<td>Thin Stillage Tank (146,000 gallon)</td>
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<td>LI-6810</td>
<td>Syrup Tank (50,000 gallon)</td>
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<td>LI-6101</td>
<td>Whole Stillage Tank (50,000 gallon)</td>
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<td>LI-2101</td>
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<td>LI-12501</td>
<td>Sulfuric Acid Tank (7,100 gallon)</td>
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<td>Diesel Tank (500 gallon)</td>
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<td>T-EIA04</td>
<td>Parts Washer (500 gal/yr)</td>
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<tr>
<td>T-EIA05</td>
<td>Temporary Grain Storage Receiving Pit and 2 Temporary Grain Storage Piles</td>
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### Insignificant Activities Equipment List (Small Unit Exemption) (*)

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<td>TS-6851</td>
<td>Corn Oil Syrup Feed Tank (1,690 gallon)</td>
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<td>TS-8901</td>
<td>Corn Oil Storage Tank (6,200 gallon)</td>
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<td>TS-8902</td>
<td>Corn Oil Storage Tank (6,200 gallon)</td>
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<td>TS-6852</td>
<td>Corn Oil Syrup Receiver Tank (336 gallon)</td>
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<td>TS-6854</td>
<td>Corn Oil Receiver Tank (300 gallon)</td>
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(*) Emission Units qualify for Small Unit Exemption under 567 IAC 22.1(2)"w". Records shall be kept in accordance with 567 IAC 22.1(2)"w"(3).
II. Plant-Wide Conditions

Facility Name: Green Plains Shenandoah, LLC
Permit Number: 13-TV-004R1-M001

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

Permit Duration

The term of this permit is: Five years from permit issuance
Commencing on: January 8, 2019
Ending on: January 7, 2024

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

Emission Limits

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

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

Sulfur Dioxide (SO₂): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

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

Fugitive Dust:  Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be
used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.

2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.

3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizer or limestone.

4. Covering, at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.

5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

Authority for Requirement: 567 IAC 23.3(2)"c"
III. Emission Point-Specific Conditions

Facility Name: Green Plains Shenandoah, LLC
Permit Number: 13-TV-004R1-M001

Emission Point ID Number: EP-SV01

Associated Equipment

Associated Emission Unit ID Numbers: See the Table 1 below
Emissions Control Equipment ID Number: CE-01
Emissions Control Equipment Description: Baghouse

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-SV01</td>
<td>EU-01</td>
<td>Truck Receiving #1</td>
<td>Corn</td>
<td>15,000 bushel/hr</td>
</tr>
<tr>
<td></td>
<td>EU-02</td>
<td>Truck Receiving #2</td>
<td>Corn</td>
<td>15,000 bushel/hr</td>
</tr>
<tr>
<td></td>
<td>EU-04</td>
<td>Rail Receiving</td>
<td>Corn</td>
<td>15,000 bushel/hr</td>
</tr>
<tr>
<td></td>
<td>EU-05</td>
<td>Grain Elevator #1</td>
<td>Corn</td>
<td>15,000 bushel/hr</td>
</tr>
<tr>
<td></td>
<td>EU-06</td>
<td>Grain Elevator #2</td>
<td>Corn</td>
<td>15,000 bushel/hr</td>
</tr>
<tr>
<td></td>
<td>EU-08</td>
<td>Grain Bin #1</td>
<td>Corn</td>
<td>300,000 bushels</td>
</tr>
<tr>
<td></td>
<td>EU-09</td>
<td>Grain Bin #2</td>
<td>Corn</td>
<td>300,000 bushels</td>
</tr>
<tr>
<td></td>
<td>EU-47</td>
<td>Fill Conveyor #2</td>
<td>Corn</td>
<td>30,000 Bushels/hr</td>
</tr>
<tr>
<td></td>
<td>EU-49</td>
<td>Reclaim Conveyor #2</td>
<td>Corn</td>
<td>10,000 Bushels/hr</td>
</tr>
<tr>
<td></td>
<td>EU-50</td>
<td>Reclaim Conveyor #3</td>
<td>Corn</td>
<td>10,000 Bushels/hr</td>
</tr>
<tr>
<td></td>
<td>EU-51</td>
<td>Transfer Conveyor #1</td>
<td>Corn</td>
<td>10,000 Bushels/hr</td>
</tr>
</tbody>
</table>

**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 06-A-340-S4
567 IAC 23.3(2) "d"

(1) An exceedance of the indicator opacity of “No Visible Emission” 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): 1.67 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-340-S4
Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.67 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-340-S4
567 IAC 23.4(7)

Operational Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The grain bins shall be filled only while under negative pressure and vented to the control equipment.
B. The owner or operator shall operate, inspect, and maintain all the equipment associated with the process and the Baghouse (CE-01) according with good air pollution control practices and manufacturer’s specifications.
   i. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Baghouse (CE-01).
C. A maximum of 35.1 million bushels of corn per twelve month rolling period may be received plantwide.
   i. The owner or operator shall keep records of the amount of corn received, and update the twelve month rolling total on a monthly basis.

Authority for Requirement: DNR Construction Permit 06-A-340-S4

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 132
Stack Opening, (inches, dia.): 44
Exhaust Flow Rate (scfm): 35,000
Exhaust Temperature (°F): Ambient (70)
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-340-S4

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-SV02

Associated Equipment

Associated Emission Unit ID Numbers: See Table 2 below
Emissions Control Equipment ID Number: CE-02
Emissions Control Equipment Description: Baghouse

Table 2: Hammermills

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-SV02</td>
<td>EU-11</td>
<td>Hammermill #1</td>
<td>Corn</td>
<td>1,250 bushel/hr</td>
</tr>
<tr>
<td></td>
<td>EU-12</td>
<td>Hammermill #2</td>
<td>Corn</td>
<td>1,250 bushel/hr</td>
</tr>
<tr>
<td></td>
<td>EU-54</td>
<td>Hammermill #3</td>
<td>Corn</td>
<td>1,250 bushel/hr</td>
</tr>
<tr>
<td></td>
<td>EU-14</td>
<td>Grinder Bucket Elevator</td>
<td>Corn</td>
<td>1,500 bushel/hr</td>
</tr>
</tbody>
</table>

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 06-A-341-S3
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): 0.75 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-341-S3

Pollutant: Particulate Matter (PM$_{10}$)
Emission Limit(s): 0.75 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-341-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.75 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-341-S3
567 IAC 23.4(7)

Operating Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.
A. The facility shall inspect and maintain the control equipment according to manufacturer's specifications.
B. The owner or operator shall keep records of control equipment inspection and maintenance.

Authority for Requirement: DNR Construction Permit 06-A-341-S3

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 132
- Stack Opening, (inches, dia.): 38
- Exhaust Flow Rate (scfm): 21,000
- Exhaust Temperature (°F): Ambient (70)
- Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-341-S3

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

**Monitoring Requirements**

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number: EP-SV03**

**Associated Equipment**

Associated Emission Unit ID Numbers: See Table 3 below  
Emissions Control Equipment ID Number: CE-03  
Emissions Control Equipment Description: Packed Bed Scrubber

<table>
<thead>
<tr>
<th>EU ID</th>
<th>Description</th>
<th>Maximum Rated Capacity</th>
<th>Control Equipment Description and ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU-15</td>
<td>Fermenter #1</td>
<td>730,000 gallons</td>
<td></td>
</tr>
<tr>
<td>EU-16</td>
<td>Fermenter #2</td>
<td>730,000 gallons</td>
<td></td>
</tr>
<tr>
<td>EU-17</td>
<td>Fermenter #3</td>
<td>730,000 gallons</td>
<td></td>
</tr>
<tr>
<td>EU-18</td>
<td>Fermenter #4</td>
<td>730,000 gallons</td>
<td></td>
</tr>
<tr>
<td>EU-53</td>
<td>Fermenter #5</td>
<td>730,000 gallons</td>
<td></td>
</tr>
<tr>
<td>EU-55</td>
<td>Fermenter #6</td>
<td>730,000 gallons</td>
<td></td>
</tr>
<tr>
<td>EU-19</td>
<td>Beer Well</td>
<td>985,000 gallons</td>
<td>Packed Bed Scrubber (CE-03)</td>
</tr>
</tbody>
</table>

**Table 3: Fermentation**

**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 06-A-342-S8  
567 IAC 23.3(2) "d"  
(1) An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 1.20 lb/hr; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 06-A-342-S8  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 19.6 lb/hr  
Authority for Requirement: DNR Construction Permit 06-A-342-S8

Pollutant: Acetaldehyde  
Emission Limit(s): 0.77 lb/hr  
Authority for Requirement: DNR Construction Permit 06-A-342-S8

Pollutant: Single HAP  
Emission Limit(s): 0.13 lb/hr  
Authority for Requirement: DNR Construction Permit 06-A-342-S8
Pollutant: Total HAP  
Emission Limit(s): 0.90 lb/hr  
Authority for Requirement: DNR Construction Permit 06-A-342-S8

Operating Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. For each month of operation, the facility shall operate the scrubber according to the parameters (scrubber liquid flow rate and additive feed rate) that it established during the seasonal performance testing required in Permit Condition 2 to demonstrate compliance with the permitted emission limits of Permit Condition 1.

### Permitted Monthly Scrubber Operating Parameters as Allowed by Season Tested

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer (testing shall be conducted in June, July or August)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Winter (testing allowed in any month from October through April)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

B. The owner or operator shall maintain an average pressure drop across the Packed Bed Scrubber (CE-03) that is greater than 4.5 inches water column based on a 24-hour rolling averaging period.

   i. The owner or operator shall record the scrubber pressure drop on a daily basis.

   ii. The owner or operator shall establish an alarm setting for the purpose of initiating corrective action based on a pressure drop across the scrubber of 4.0 inches water column or less. After the collection of 12 months of pressure drop data, the owner or operator shall re-evaluate the minimum pressure drop requirements to determine if the pressure drop monitoring needs to be adjusted. If so, the owner or operator shall submit a permit modification request to the Department.

On those days when there is an alarm for the pressure drop reaching 4 inches water column or less, calculate and record the average pressure drop across the scrubber based on a 24-hour rolling average. This requirement shall not apply on the days that the scrubber is not in operation or during facility start-up, shutdown or during operation at less than 50% of capacity. If the pressure drop deviates below the minimum required, then record the time, date, and actions taken to correct the situation and record when the pressure drop is back above the minimum average pressure drop required.
C. The Packed Bed Scrubber (CE-03) shall have a minimum scrubber liquid flow rate that is calculated as 90 percent of the total liquid flow rate at the inlet to the scrubber measured during the most recent performance test that demonstrated compliance with the VOC and HAP emission limitations contained in the Emission Limits Section.
   i. The owner or operator shall record the scrubber liquid flow rate on a daily basis.
      1. If the flow rate deviates below the minimum required, then the owner or operator shall record the time, date, and actions taken to correct the situation.
      2. The owner or operator shall also record when the flow rate is back above the minimum required.
   ii. If the flow rate deviates below the minimum flow rate required (i.e., 90 percent of the average liquid flow rate observed during the applicable seasonal performance test), then the facility shall record the time, date and actions taken to correct the situation and when the flow rate is back above the minimum flow rate required.
   iii. The facility shall record the permitted scrubbing liquid flow rate it is utilizing for each month as determined during the most recent seasonal performance test that it is using to demonstrate compliance.

D. Any additive added to the scrubber liquid during a compliance test to enhance the efficiency of the scrubber shall be added, for that month, at a rate greater than or equal to the rate recorded during the applicable seasonal operating performance test that demonstrated compliance with the VOC and HAP emission limitations contained in Emission Limits Section.
   i. The owner or operator shall record the rate of additive to the scrubber liquid on a daily basis.
   ii. If the additive feed rate deviates below the required rate (i.e. average additive feed rate observed during the applicable seasonal performance test), then the owner or operator shall record the time, date, and actions taken to correct the situation and when the additive feed rate is back above the minimum required.
   iii. The facility shall record the permitted additive feed rate it is utilizing for each month as determined during the most recent seasonal performance test that it is using to demonstrate compliance.

E. The owner or operator shall maintain onsite a copy of the most recent performance tests for each scrubber operating scenario detailing pressure drop, scrubber liquid flow rate, and additive feed rate measured during each seasonal performance test that demonstrated compliance with the emission limits in Permit Condition 1.

F. The owner or operator shall inspect and maintain the Packed Bed Scrubber (CE-03) according to the facility’s (Plant No. 36-10-001) operation and maintenance plan.
   i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the scrubber. This log shall include, but shall not be limited to:
      1. The date that any inspection and/or maintenance was performed on the control equipment;
      2. Any issues identified during the inspection;
      3. Any issues addressed during the maintenance activities; and
      4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 06-A-342-S8
**Emission Point Characteristics**
*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 79
Stack Opening, (inches): 23.5
Exhaust Flow Rate (scfm): 9,400
Exhaust Temperature (°F): Ambient (70)
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-342-S8

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

Pollutant – VOC\(^{(1)}\)
Annual Stack Test to be completed in June, July, or August.
Test Method - 40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
Authority for Requirement - DNR Construction Permit 06-A-342-S8

Pollutant – Single HAP\(^{(2)}\)
Annual Stack Test to be completed in June, July, or August.
Authority for Requirement – DNR Construction Permit 06-A-342-S8

Pollutant – Total HAP\(^{(2)}\)
Annual Stack Test to be completed in June, July, or August.
Test Method - 40 CFR 63, Appendix A, Method 18 or 40 CFR 60, Appendix A, Method 320
Authority for Requirement - DNR Construction Permit 06-A-342-S8

\(^{(1)}\) The required annual stack testing shall be conducted in June, July, or August. Should three (3) consecutive stack tests demonstrate emission rates that are less than 90% of the VOC emission limit in Emission Limits section above, the facility (Plant No. 36-10-001) may request a reduction in test frequency.

\(^{(2)}\) The required stack testing shall be conducted for Single HAP and Total HAP. Acrolein, acetaldehyde, formaldehyde, and methanol shall be tested for specifically. The specified HAP compounds that test below detection limits shall be assumed to be emitting at a rate equal to the detection limit. The required annual stack testing shall be conducted in June, July, or August. Should three (3) consecutive stack tests demonstrate emission rates that are less than 90% of the
HAP emission limits in Emission Limits section above, the facility (Plant No. 36-10-001) may request a reduction in test frequency.

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

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

*This requirement is satisfied by complying with the requirements in Operating Requirements with Associated Monitoring and Recordkeeping section above.

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-SV04

Associated Equipment
Associated Emission Unit ID Numbers: See Table 4 below:
Emissions Control Equipment ID Number: CE-04; CE-09; CE-10
Emissions Control Equipment Description: Thermal Oxidizer (CE-04); Centrifugal Collectors for Dryers only (CE-09 and CE-10)
Continuous Emissions Monitors ID Numbers: ME-01

Table 4: Distillation and Dryers

<table>
<thead>
<tr>
<th>EU ID</th>
<th>Description</th>
<th>Maximum Rated Capacity</th>
<th>Control Equipment Description and ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU20</td>
<td>Slurry Mixer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU21</td>
<td>Slurry Tank</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU22</td>
<td>Cook Tube</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU23</td>
<td>Flash Vessel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU26</td>
<td>Yeast Tank</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU27</td>
<td>Beer Tank</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU28</td>
<td>Side Stripper</td>
<td></td>
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</tr>
<tr>
<td>EU29</td>
<td>Rectifier Column</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU30</td>
<td>190 Proof Condenser</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU31</td>
<td>Molecular Sieves #1 - #3</td>
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<tr>
<td>EU32</td>
<td>200 Proof Condenser</td>
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</tr>
<tr>
<td>EU33</td>
<td>Centrifuges</td>
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<tr>
<td>EU34</td>
<td>Evaporators</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU35</td>
<td>DDGS Dryer A</td>
<td>40 MMBtu/hr</td>
<td></td>
</tr>
<tr>
<td>EU36</td>
<td>DDGS Dryer B</td>
<td>40 MMBtu/hr</td>
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<tr>
<td>EU37</td>
<td>TO/HRSG</td>
<td>125 MMBtu/hr</td>
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</tr>
<tr>
<td>EU38</td>
<td>Beer Column #2</td>
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<tr>
<td>EU39</td>
<td>Molecular Sieves #4 - #6</td>
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<tr>
<td>EU40</td>
<td>Sieve Vaporizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU41</td>
<td>Protein Dryer</td>
<td>62 MMBtu/hr; 8 tons/hr protein</td>
<td></td>
</tr>
<tr>
<td>EU42</td>
<td>Fiber Slurry Tank</td>
<td>22,900 gallons</td>
<td></td>
</tr>
<tr>
<td>EU43</td>
<td>Pressure Screen Feed Tank</td>
<td>8,100 gallons</td>
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</tr>
<tr>
<td>EU44</td>
<td>Fiber Blowdown Tank</td>
<td>18,400 gallons</td>
<td></td>
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<tr>
<td>EU45</td>
<td>MSC Acid Wash Tank</td>
<td>5,875 gallons</td>
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<td>EU46</td>
<td>Clarifier Feed Tank</td>
<td>13,600 gallons</td>
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</tr>
<tr>
<td>EU47</td>
<td>Clarifier Overflow Tank</td>
<td>11,600 gallons</td>
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</tr>
<tr>
<td>EU48</td>
<td>Clarifier Underflow Tank</td>
<td>11,600 gallons</td>
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</tr>
<tr>
<td>EU49</td>
<td>Protein Decanters #1-#4</td>
<td>Each: 300 gallons per minute</td>
<td></td>
</tr>
<tr>
<td>EU50</td>
<td>Protein Collection Conveyors</td>
<td>32 TPH</td>
<td></td>
</tr>
<tr>
<td>EU51</td>
<td>Slurry Water Tank</td>
<td>22,900 gallons</td>
<td></td>
</tr>
<tr>
<td>EU52</td>
<td>Protein Centrate Tank</td>
<td>1,200 gallons</td>
<td></td>
</tr>
<tr>
<td>EU53</td>
<td>Fiber Decanters #1-#4</td>
<td>Each: 300 gallons per minute</td>
<td></td>
</tr>
<tr>
<td>EU54</td>
<td>Fiber Collection Conveyors</td>
<td>30 TPH</td>
<td></td>
</tr>
</tbody>
</table>

Thermal Oxidizer (CE4), Centrifugal Collectors (CE09 and CE10) for Dryers only
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 06-A-343-S9
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM\(_{10}\))
Emission Limit(s): 8.0 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-343-S9

Pollutant: Particulate Matter (PM)-State
Emission Limit(s): 8.0 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-343-S9
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO\(_2\))
Emission Limit(s): 16.04 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-343-S9

Pollutant: Nitrogen Oxides (NO\(_x\))
Emission Limit(s): 20.78 lb/hr, 0.1 lb/MMBtu \(^{(2)}\)
Authority for Requirement: DNR Construction Permit 06-A-343-S9
567 IAC 23.1(2)"ccc"
40 CFR 60 Subpart Db

\(^{(2)}\) This limit applies to EU37 only. The limit is on a 30 day rolling average basis, and applies at all times, including periods of startup, shutdown and malfunction.

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 9.92 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-343-S9

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 20.55 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-343-S9

Pollutant: Acetaldehyde
Emission Limit(s): 0.74 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-343-S9
Pollutant: Single HAP
Emission Limit(s): 1.02 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-343-S9

Pollutant: Total HAPs
Emission Limit(s): 2.06 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-343-S9

Operating Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The owner or operator shall inspect and maintain the Thermal Oxidizer (CE04) according to the facility’s (Plant No. 36-10-001) operation and maintenance plan. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
   i. The date any inspection and/or maintenance was performed on the control equipment;
   ii. Any issues identified during the inspection;
   iii. Any issues addressed during the maintenance activities; and,
   iv. Identification of the staff member performing the maintenance or inspection.

B. During operation, Thermal Oxidizer (CE04) shall maintain a temperature (3-hour block average) at no 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.
   i. The owner or operator shall properly operate and maintain equipment to continuously monitor the temperature of the Thermal Oxidizer. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer’s recommendations, instructions and operating manuals or per a written facility-specific operation and maintenance plan.
   ii. The owner or operator shall collect and record the temperature of the Thermal Oxidizer (CE04) at a minimum of once every 15 minutes and calculate and record the 3-hour block average. The 3-hour block average shall be calculated in successive, nonoverlapping periods, and shall be calculated using all data points collected during the averaging period. This requirement shall not apply on the days the Thermal Oxidizers, or the equipment the Thermal Oxidizer controls, is not in operation.
   iii. The owner or operator shall record all periods (during actual operations) where the 3-hour block 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. This requirement shall not apply in instances where there is unavailable data for the 3-hour block average.
   iv. The owner or operator shall retain the most recent stack tests for the Thermal Oxidizer (CE04) that demonstrated compliance with the VOC and HAP emission limits.
limits. The permittee shall document the average temperature recorded during those tests, and calculate and document the minimum temperature the Thermal Oxidizer (CE04) shall operate above (50 degrees Fahrenheit below the average temperature recorded during the most recent VOC and HAP performance test which demonstrated compliance with the VOC and HAP emission limits).

C. The owner or operator shall operate the Thermal Oxidizer (CE04) at all times that process streams are being vented to the equipment.
   i. The owner or operator shall keep records of the frequency and amount of time the Thermal Oxidizer malfunctions, and estimate the emissions emitted during said malfunctions.

NSPS Requirements

D. The DDGS and Protein Dryers (EU35, EU36, and EU60) and Thermal Oxidizer (CE04) shall combust only natural gas and/or process off gases. The TO/HRSG (EU37) shall not combust any supplemental fuel.
   i. As indicated in 40 CFR §60.49b(d)(1), the owner or operator shall record and maintain records of the amounts of each fuel combusted in the thermal oxidizer/heat recovery boiler system during each day. In addition, the owner or operator shall calculate the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated by the end of each calendar month for the previous month. Per 40 CFR §60.41b, the annual capacity factor is defined as the ratio between the actual heat input to a steam generating unit from the fuels listed in §60.42b(a), §60.43b(a), or §60.44b(a), as applicable, during a calendar year and the potential heat input to the steam generating unit had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.

E. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [§60.40b - §60.49b], including those not specifically mentioned in this permit. If differences in language are found between this permit and Subpart Db, the language specified in Subpart Db shall be considered correct.

F. As indicated in 40 CFR §60.46b(e)(3), the owner or operator shall demonstrate compliance with the emission limits for NO\(_x\) required in §60.44b (lb/MMBtu) on a continuous basis through the use of a 30-day rolling average emission rate.

G. As indicated in 40 CFR §60.49b(g), the owner or operator shall maintain records of the following information for each steam generating unit operating day and it shall be submitted in a report, as required in 40 CFR §60.49b(i).
   i. Calendar date;
   ii. The average hourly NO\(_x\) emission (as NO\(_2\)) rates measured;
   iii. The 30-day average NO\(_x\) emission rates calculated at the end of each steam generating unit operating day from the measured hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
   iv. Identification of the steam generating unit operating days when the calculated 30-day average NO\(_x\) emission rates are in excess of the NO\(_x\) emission standard under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;
v. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
vi. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
vii. Identification of the “F” factor used for calculations, method of determination, and type of fuel combusted;
viii. Identification of the times when the pollutant concentration exceeded full span of the CEMS;
ix. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and
x. Results of daily CEMS drift tests and quarterly accuracy assessments as required in 40 CFR Appendix F, Procedure 1.

Authority for Requirement: DNR Construction Permit 06-A-343-S9

NSPS Applicability
Emission Unit 37 (Heat Recovery Steam Generator) is subject to 40 CFR Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. This subpart applies to each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)).

Authority for Requirement: DNR Construction Permit 06-A-343-S9 567 IAC 23.1(2)”ccc”

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 125
Stack Opening, (inches, dia.): 84
Exhaust Flow Rate (scfm): 83,835
Exhaust Temperature (°F): 309
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-343-S9

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

Continuous Emissions Monitoring:

A. The following requirements shall apply to all CEMS for NSPS emission standards in this permit:
   i. The owner or operator shall demonstrate compliance with the nitrogen oxide emission through the use of a continuous emission monitoring system (CEMS). The owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring nitrogen oxides emissions discharged from the emission point to the atmosphere. The CEM shall be installed, evaluated, operated and data collected to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 2 (PS2). The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.
   ii. The 1-hour average NO\textsubscript{X} emission rates measured by the NO\textsubscript{X} CEM required by 40 CFR 60.48b(b) and required under 40 CFR 60.13(h) shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emissions rates under 40 CFR 60.44b. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2).
   iii. Per 40 CFR 60.49b(f), when NO\textsubscript{x} emissions are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained by using standby monitoring systems, 40 CFR Part 60 Appendix A Method 7, 40 CFR Part 60 Appendix A Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.
   iv. The NO\textsubscript{X} CEMS shall be operated and data collected as required under 40 CFR §60.48b(c), (d), (e), and (f).

B. The following requirements shall apply to all CEMS for non-NSPS emission standards in this permit:
   i. The CEMS required by this permit shall be operated and data recorded during all periods of operation of the emission units associated with EP SV04, except for CEMS breakdowns and repairs. Data is recorded during calibration checks and zero and span adjustments.
   ii. The 1-hour average NO\textsubscript{X} emission rates measured by the CEMS required by this permit shall be used to calculate compliance with the emission standards in this permit. At least two data points must be used to calculate each 1-hour average.
   iii. For each hour of missing emission data (NO\textsubscript{x}), the owner or operator shall substitute data by:
      a) If the monitor data availability is equal to or greater than 95.0\%, the permittee shall calculate substitute data by means of the automated data acquisition and
handling system for each hour of each missing data period according to the following procedures:

(i) For a missing data period less than or equal to 24 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

(ii) For a missing data period greater than 24 hours, substitute the greater of:
   - The 90th percentile hourly concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or,
   - The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

b) If the monitor data availability is at least 90.0% but less than 95.0%, the permittee shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:

(i) For a missing data period of less than or equal to 8 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

(ii) For a missing data period of more than 8 hours, substitute the greater of:
   - The 95th percentile hourly pollutant concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or,
   - The average of the hourly concentration recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

c) If the monitor data availability is less than 90.0%, the owner or operator shall obtain actual emission data by an alternate testing or monitoring method approved by the Department.

C. The applicable requirements in Appendix F to Part 60 – Quality Assurance Procedures shall apply to all CEMS used for determination of compliance with the applicable emission limits in this permit, including:

i. The owner or operator shall develop and implement a quality control (QC) program. As a minimum, each QC program shall include written procedures which should describe in detail, complete, step-by-step procedures and operations for each of the following activities:
   - a) Calibration of the CEMS;
   - b) Calibration drift determination and adjustment of the CEMS;
   - c) Preventive maintenance of the CEMS (including spare parts inventory);
   - d) Data recording, calculations, and reporting;
   - e) Accuracy audit procedures including sampling and analysis methods; and,
   - f) Program of corrective action for malfunctioning CEMS.

ii. Whenever excessive inaccuracies occur for two consecutive quarters, the owner or operator shall revise the current written procedures or modify or replace the CEMS to correct the deficiency causing the excessive inaccuracies.
iii. The owner or operator shall keep on-site a copy of these written procedures and shall make them available for inspection by the Department.

The owner or operator shall conduct a Relative Accuracy Test Audit (RATA) at least once every four calendar quarters and shall submit RATA reports to the Department as indicated in this permit (see General Condition G30).

Pollutant – Nitrogen Oxides (NOₓ)
- Monitoring Equipment Number: ME-01
- Operational Specifications – 40 CFR Part 60
- Date of Initial System Calibration and Quality Assurance – 01/08/2008
- Ongoing System Calibration/Quality Assurance – 40 CFR Part 60
- Reporting & Record keeping – 40 CFR Part 60
- Authority for Requirement – 567 IAC 25.3
  - DNR Construction Permit 06-A-343-S9

Other Parameters

Pollutant – Oxygen (O₂)
- Operational Specifications – 40 CFR Part 60
- Date of System Calibration and Quality Assurance – 01/08/2008
- Ongoing System Calibration/Quality Assurance – 40 CFR Part 60
- Reporting & Record keeping – 40 CFR Part 60
- Authority for Requirement – 567 IAC 25.1 (9)
  - DNR Construction Permit 06-A-343-S9

Stack Testing Requirements:

Pollutant – Volatile Organic Compounds (VOC)\(^1\)
- Stack Test to be completed once every year in June, July, or August.
- Test Method - 40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
- Authority for Requirement - DNR Construction Permit 06-A-343-S9

Pollutant – Single HAP\(^1\)\(^2\)
- Stack Test to be completed once every year in June, July, or August.
- Authority for Requirement – DNR Construction Permit 06-A-343-S9

Pollutant – Total HAP\(^1\)\(^2\)
- Stack Test to be completed once every year in June, July, or August.
- Authority for Requirement - DNR Construction Permit 06-A-343-S9

\(^1\) 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 2/16/2022 is counted in the four consecutive tests for this requirement. The next test is required on or before August 31, 2023.
(2) The required stack testing shall be conducted for Single HAP and Total HAP. Acrolein, acetaldehyde, formaldehyde, and methanol shall be tested for specifically. The specified HAP compounds that test below detection limits shall be assumed to be emitting at a rate equal to the detection limit.

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

Agency Approved Operation & Maintenance Plan Required? Yes [ ] No [x]

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

Required for CE-09 and CE-10.

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? Yes [x] No [ ]

The Thermal Oxidizer (CE-04) CAM requirement is satisfied by complying with the requirements in Operating Requirements with Associated Monitoring and Recordkeeping section above.

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** EP-SV05

**Associated Equipment**
Associated Emission Unit ID Numbers: EU-38  
Emissions Control Equipment ID Number: CE-05  
Emissions Control Equipment Description: Baghouse

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Emission Unit vented through this Emission Point: EU-38  
Emission Unit Description: DDGS Cooling Cyclone  
Raw Material/Fuel: DDGS  
Rated Capacity: 23 ton/hr

**Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 40% (1)  
Authority for Requirement:  
- DNR Construction Permit 06-A-344-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 DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM$_{10}$)  
Emission Limit(s): 1.2 lb/hr  
Authority for Requirement:  
- DNR Construction Permit 06-A-344-S5

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 1.2 lb/hr; 0.1 gr/dscf  
Authority for Requirement:  
- DNR Construction Permit 06-A-344-S5  
- 567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 1.51 lb/hr  
Authority for Requirement:  
- DNR Construction Permit 06-A-344-S5

Pollutant: Single HAP  
Emission Limit(s): 0.21 lb/hr  
Authority for Requirement:  
- DNR Construction Permit 06-A-344-S5

Pollutant: Total HAP  
Emission Limit(s): 0.69 lb/hr  
Authority for Requirement:  
- DNR Construction Permit 06-A-344-S5
Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

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

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

Authority for Requirement: DNR Construction Permit 06-A-344-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 132
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 28,000
Exhaust Temperature (°F): 90
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-344-S5

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)
Compliance Assurance Monitoring (CAM) for Green Plains Shenandoah, LLC
Facility located in Shenandoah IA

EP SV05-DDGS Cooling Cyclone Baghouse (CE-05)

I. Background
   A. Emissions Unit
      Description: DDGS Cooling Cyclone (EU-38)
      Facility: Green Plains Shenandoah, LLC
      Shenandoah, Iowa
   
   B. Applicable Regulation, Emission Limit, and Monitoring Requirements
      Regulation #: DNR Construction Permit 06-A-344-S4
      Emission Limit: 1.2 lb/hr PM10
      Current Monitoring Requirements: None
   
   C. Control Technology
      Control Equipment ID: CE-05
      Control Equipment Description: Fabric Filter Baghouse

II. Monitoring Approach
   A. Indicator:
      Pressure drop will be used as the performance indicator.
   
   B. Monitoring Approach:
      The key elements of the monitoring approach, including the indicators to be monitored, indicator ranges, and performance criteria are presented in Table 1.

<table>
<thead>
<tr>
<th>Table 1. Monitoring Approach</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Indicator</td>
</tr>
<tr>
<td>Measurement Approach</td>
</tr>
<tr>
<td>II. Indicator Range</td>
</tr>
<tr>
<td>Correction Action</td>
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<tr>
<td>QIP Threshold</td>
</tr>
<tr>
<td>III. Performance Criteria</td>
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<tr>
<td>A. Data Representativeness</td>
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<tr>
<td>B. QA/QC Practices and Criteria</td>
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<tr>
<td><strong>C. Monitoring Frequency</strong></td>
</tr>
<tr>
<td>-----------------------------</td>
</tr>
<tr>
<td><strong>Data Collection Procedures</strong></td>
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<tr>
<td><strong>D. Record Keeping</strong></td>
</tr>
<tr>
<td><strong>E. Reporting</strong></td>
</tr>
<tr>
<td><strong>Reporting Frequency</strong></td>
</tr>
</tbody>
</table>
**Emission Point ID Number: EP-SV06**

**Associated Equipment**

Associated Emission Unit ID Numbers: See Table 5 below

Emissions Control Equipment ID Number: CE-06

Emissions Control Equipment Description: Baghouse

**Table 5: DDGS Loadout**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-SV06</td>
<td>EU-39</td>
<td>DDGS Storage</td>
<td>DDGS</td>
<td>23 ton/hr</td>
</tr>
<tr>
<td></td>
<td>EU-40</td>
<td>DDGS Conveyor</td>
<td>DDGS</td>
<td>1,500 Bushel/hr</td>
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<tr>
<td></td>
<td>EU-41</td>
<td>Truck Loadout Spout</td>
<td>DDGS</td>
<td>1,500 Bushel/hr</td>
</tr>
</tbody>
</table>

**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 06-A-345-S2

567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.16 lb/hr; 1.06 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-345-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.16 lb/hr; 1.06 ton/yr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-345-S2

567 IAC 23.3 (2) "a"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.31 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-345-S2

Pollutant: Acetaldehyde

Emission Limit(s): 0.05 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-345-S2

Pollutant: Single HAP – Except Acetaldehyde

Emission Limit(s): 0.10 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-345-S2
Pollutant: Total HAP  
Emission Limit(s): 0.15 lb/hr  
Authority for Requirement: DNR Construction Permit 06-A-345-S2

**Operating Requirements with Associated Monitoring and Recordkeeping**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's recommendations.
B. The owner or operator shall keep records of control equipment inspections and maintenance.
C. The owner or operator shall loadout a maximum of 277,606 tons of DDGS per rolling 12-months.
D. The owner or operator shall track DDGS loadout out at the facility on a monthly basis. Calculate and record the rolling 12-month totals.

Authority for Requirement: DNR Construction Permit 06-A-345-S2

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40  
Stack Opening, (inches, dia.): 13.25  
Exhaust Flow Rate (scfm): 2,976  
Exhaust Temperature (°F): Ambient (70)  
Discharge Style: Unobstructed Vertical

Authority for Requirement: DNR Construction Permit 06-A-345-S2

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

**Monitoring Requirements**

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

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

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.
The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number: EP-SV07**

**Associated Equipment**

Associated Emission Unit ID Numbers: See Table 6 below

Emissions Control Equipment ID Number: CE-07 (for EU-42, Truck Loadout only)

Emissions Control Equipment Description: Flare (6.4 MMBtu/hr)

### Table 6: Ethanol Truck & Rail Loadout

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-SV07</td>
<td>EU-42</td>
<td>Ethanol Truck Loadout</td>
<td>Ethanol</td>
<td>36,000 gal/hr</td>
</tr>
<tr>
<td></td>
<td>EU-43</td>
<td>Ethanol Rail Loadout</td>
<td>Ethanol</td>
<td>78,000 gal/hr</td>
</tr>
</tbody>
</table>

**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 06-A-346-S4
- 567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.25 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-346-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.25 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-346-S4

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

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-346-S4

567 IAC 23.3(3)

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

Emission Limit(s): 0.44 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-346-S4

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 31.12 lb/hr; 21.5ton/yr

Authority for Requirement: DNR Construction Permit 06-A-346-S4

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 2.36 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-346-S4
Pollutant: Total HAP
Emission Limit(s): 1.42 tons/yr
Authority for Requirement: DNR Construction Permit 06-A-346-S4

Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The facility shall loadout a maximum of 100.0 million gallons of denatured ethanol per twelve month rolling period on a plantwide basis.

B. The owner or operator shall keep records of the amount of denatured ethanol loaded out on a plantwide basis, and update the twelve month rolling total monthly.

C. All rail loadouts shall be to dedicated tank cars (i.e., no switch loading).

D. All truck loadouts shall have the emissions controlled by the flare.

E. The presence of a pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame in the flare.

F. The flare shall be operated with a flame when emissions are vented to it.

G. The flare shall be a smokeless design.

H. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of Flare.

   a. The owner or operator shall inspect and maintain the control equipment according to manufacturer’s specifications.

Authority for Requirement: DNR Construction Permit 06-A-346-S4
Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 25
Stack Opening, (inches, dia.): 42
Exhaust Flow Rate (scfm): 2,691
Exhaust Temperature (°F): 800
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-346-S4

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Compliance Assurance Monitoring (CAM) for Green Plains Shenandoah, LLC
Facility located in Shenandoah IA

EP SV07 – Ethanol Loadout Flare (CE-07)

I. Background

A. Emissions Unit
   Description: Ethanol Truck Loading Rack (EU-42)
   Facility: Green Plains Shenandoah, LLC
   Shenandoah, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements
   Regulation #: DNR Construction Permit 06-A-346-S4
   VOC Emission Limit: 31.12 lb/hr and 21.5 ton/yr for VOC

C. Control Technology
   Control Equipment Number: CE-07
   Control Equipment Description: Thermal Oxidization by Flaring

II. Ethanol Loadout Flare (CE07) Monitoring Approach

A. Indicator:
   Visual confirmation that a flame is present during ethanol loadout operations will be used
   as the performance indicator.

B. Monitoring Approach:
   The key elements of the monitoring approach, including the indicators to be monitored,
   indicator ranges, and performance criteria are presented in Table 1.

<table>
<thead>
<tr>
<th>Table1. Monitoring Approach</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Indicator</td>
</tr>
<tr>
<td>Measurement Approach</td>
</tr>
<tr>
<td>II. Indicator Range</td>
</tr>
<tr>
<td>Correction Action</td>
</tr>
<tr>
<td>QIP Threshold</td>
</tr>
<tr>
<td>III. Performance Criteria</td>
</tr>
<tr>
<td>A. Data Representativeness</td>
</tr>
<tr>
<td>B. Verification of Operational Status</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>D.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>E.</td>
</tr>
<tr>
<td>F.</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
Emission Point ID Number:  EP-SV09

Associated Equipment

Associated Emission Unit ID Numbers:  EU-45

Emission Unit vented through this Emission Point:  EU-45
Emission Unit Description:  Emergency Diesel Fire Pump
Raw Material/Fuel:  Diesel
Rated Capacity:  110 bhp

Applicable Requirements

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

Pollutant:  Opacity
Emission Limit(s):  40% (1)
Authority for Requirement:  DNR Construction Permit 06-A-348-S1
567 IAC 23.3(2) "d"

(1) An exceedance of the indicator opacity of "20%" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant:  Particulate Matter (PM$_{10}$)
Emission Limit(s):  0.15 lb/hr
Authority for Requirement:  DNR Construction Permit 06-A-348-S1

Pollutant:  Particulate Matter (PM)
Emission Limit(s):  0.15 lb/hr
Authority for Requirement:  DNR Construction Permit 06-A-348-S1

Pollutant:  Sulfur Dioxide (SO$_2$)
Emission Limit(s):  0.23 lb/hr; 2.5 lb/MMBtu
Authority for Requirement:  DNR Construction Permit 06-A-348-S1
567 IAC 23.3(3)

Pollutant:  Nitrogen Oxides (NO$_x$)
Emission Limit(s):  1.89 lb/hr
Authority for Requirement:  DNR Construction Permit 06-A-348-S1

Pollutant:  Volatile Organic Compounds (VOC)
Emission Limit(s):  0.27 lb/hr
Authority for Requirement:  DNR Construction Permit 06-A-348-S1

Pollutant:  Carbon Monoxide (CO)
Emission Limit(s):  0.90 lb/hr
Authority for Requirement:  DNR Construction Permit 06-A-348-S1
Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. This unit shall operate a maximum of 500 hours per twelve month rolling period.
B. This unit shall combust diesel with a maximum sulfur content of 0.05% by weight.
C. The owner or operator shall keep records of the amount of time the unit is operated, and update the twelve month rolling total on a monthly basis.
D. The owner or operator shall keep records from the fuel supplier documenting the sulfur content of the diesel.

Authority for Requirement: DNR Construction Permit 06-A-348-S1

NESHAP Subpart ZZZZ Requirements:
The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(iii) this emergency engine, located at an area source, is a new stationary RICE as it was constructed on or after June 12, 2006.

According to 40 CFR 63.6590(c)(1), a new stationary RICE located at an area source of HAP emissions must meet the requirements of Part 63 by meeting the requirements of 40 CFR part 60 subpart IIII for compression ignition engines. No further requirements apply for this engine under Part 63.

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

NSPS Subpart IIII Requirements
Emission Standards:
According to 40 CFR 60.4205(c) and Table 4 to Subpart IIII, you must comply with the following emission standards in grams/kW-hr (grams/HP-hr):

<table>
<thead>
<tr>
<th>NMHC + NOx</th>
<th>CO</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.5 (7.8)</td>
<td>5.0 (3.7)</td>
<td>0.80 (0.60)</td>
</tr>
</tbody>
</table>

Fuel Requirements:
You must use diesel fuel that has a maximum sulfur content of 15 ppm (0.0015%) by weight and a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume. 40 CFR 60.4207 and 40 CFR 80.510(b).

Compliance Requirements:
1. You must operate and maintain the engine to comply with the required emission standards over the entire life of the engine (40 CFR 60.4206) by doing all of the following (40 CFR 60.4211(a)).
a) Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
b) Changing only those emission-related settings that are permitted by the manufacturer; and
c) Meeting the requirements of 40 CFR 89, 94 and/or 1068, as they apply to you.

2. You must demonstrate compliance with the applicable emission standards according to one of the following methods. 40 CFR 60.4211(b).
   a) Purchasing an engine certified according to 40 CFR 89 or 40 CFR 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
   b) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in Subpart IIII and these methods must have been followed correctly.
   c) Keeping records of engine manufacturer data indicating compliance with the standards.
   d) Keeping records of control device vendor data indicating compliance with the standards.
   e) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable.

3. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct the following performance testing in accordance with 40 CFR 60.4212 to demonstrate compliance with applicable emission standards. You are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 60.4211(g) for additional information.

<table>
<thead>
<tr>
<th>Initial Test</th>
<th>Subsequent Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Within 1 year of engine startup, or non-permitted action (1)</td>
<td>Not required</td>
</tr>
</tbody>
</table>

(1) Non-permitted action means that you do not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or you change the emission-related settings in a way that is not permitted by the manufacturer.

**Operating and Recordkeeping Requirements**

1. If your emergency engine does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine (40 CFR 40.4209(a)).
2. There is no time limit on the use of the emergency engine in emergency situations. 40 CFR 60.4211(f)(1).
3. The engine may be operated for the purpose of maintenance checks and readiness testing for a maximum of 100 hours/year. See 40 CFR 60.4211(f)(2) for more information.
4. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used for peak shaving or to generate income for the facility (e.g. supplying power to the grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing. See 40 CFR 60.4211(f)(3) for more information.

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 13
- Stack Opening, (inches, dia.): 4
- Exhaust Flow Rate (scfm): 187
- Exhaust Temperature (°F): 1108
- Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-348-S1

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** EP-SV10

**Associated Equipment**

Associated Emission Unit ID Numbers: See Table 7 below

---

**Table 7: Liquefaction Tanks**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-SV10</td>
<td>EU-24</td>
<td>Liquefaction Tank #1</td>
<td>Mash</td>
<td>64,700 gallons</td>
</tr>
<tr>
<td></td>
<td>EU-25</td>
<td>Liquefaction Tank #2</td>
<td>Mash</td>
<td>64,700 gallons</td>
</tr>
</tbody>
</table>

---

**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 12-A-035-S1
    - 567 IAC 23.3(2) "d"

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

- **Pollutant:** Particulate Matter (PM)
  - Emission Limit(s): 0.1 gr/dscf
  - Authority for Requirement: DNR Construction Permit 12-A-035-S1
    - 567 IAC 23.3(2) "a"

- **Pollutant:** Volatile Organic Compounds (VOC)
  - Emission Limit(s): 5.28 lb/hr
  - Authority for Requirement: DNR Construction Permit 12-A-035-S1

- **Pollutant:** Single HAP
  - Emission Limit(s): 0.10 lb/hr
  - Authority for Requirement: DNR Construction Permit 12-A-035-S1

- **Pollutant:** Total HAPs
  - Emission Limit(s): 0.15 lb/hr
  - Authority for Requirement: DNR Construction Permit 12-A-035-S1

**Operational Limits & Requirements**

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

Operational limits are not required at this time.
**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 39
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): 17
Exhaust Temperature (°F): 180
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 12-A-035-S1

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-SV11

Associated Equipment

Associated Emission Unit ID Numbers: See Table 8 below
Emissions Control Equipment ID Number: CE-11
Emissions Control Equipment Description: Cartridge Filters

Table 8: Grain Handling Operations (b)

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-SV11</td>
<td>EU-46</td>
<td>Grain Bin #3</td>
<td>Corn</td>
<td>250,000 Bushels</td>
</tr>
<tr>
<td></td>
<td>EU-48</td>
<td>Fill Conveyor #3</td>
<td>Corn</td>
<td>30,000 Bushels/hr</td>
</tr>
</tbody>
</table>

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 16-A-170-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 corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.29 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 16-A-170-S1
567 IAC 23.4(7)

Pollutant: Particulate Matter (PM10)
Emission Limit(s): 1.29 lb/hr
Authority for Requirement: DNR Construction Permit 16-A-170-S1
Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The grain bin shall be filled only while under negative pressure and vented to the control equipment.
B. The owner or operator shall operate, inspect, and maintain all the equipment associated with the process and the Cartridge Filters (CE-11) according with good air pollution control practices and manufacture's specifications.
   i. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Cartridge Filters (CE-11).
C. A maximum of 35.1 million bushels of corn per twelve month rolling period may be received plantwide.
   i. The owner or operator shall keep records of the amount of corn received, and update the twelve month rolling total on a monthly basis.

Authority for Requirement: DNR Construction Permit 16-A-170-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 107
Stack Opening, (inches): 15.6 X 16.94
Exhaust Flow Rate (scfm): 1,500
Exhaust Temperature (°F): Ambient (70)
Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 16-A-170-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.
Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-SV12

Associated Equipment
Associated Emission Unit ID Numbers: EU-52

Emission Unit vented through this Emission Point: EU-52
Emission Unit Description: Natural Gas Boiler #2
Raw Material/Fuel: Natural Gas
Rated Capacity: 75.3 MMBtu/hr, 73,824 cf natural gas/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 16-A-341
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 corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.0 lb/hr; 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 16-A-341
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO\(_2\))
Emission Limit(s): 500 ppm
Authority for Requirement: DNR Construction Permit 16-A-341
567 IAC 23.3(3)"e"
Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

H. The Natural Gas Boiler #2 (EU-52) shall only use natural gas as a fuel.

I. The owner or operator shall comply with the applicable requirements in 40 CFR Part 60, Subpart Dc [§60.40c - §60.48c], including those not specifically mentioned in this permit.

   i. The owner or operator shall comply with the reporting and recordkeeping requirements as outlined in 40 CFR §60.48c, including, but not limited to the following:

      1. Per 40 CFR §60.48c(g)(1), the owner or operator shall record and maintain records of the amount of each fuel combusted during each operating day; or

      2. Per 40 CFR §60.48c(g)(2), record and maintain records of the amount of each fuel combusted during each calendar month; or

      3. Per 40 CFR §60.48c(g)(3), record and maintain records of the total amount of each steam generating unit fuel delivered to the property during each calendar month.

Authority for Requirement: DNR Construction Permit 16-A-341

NSPS Subpart Dc Requirements

This emission unit is subject to 40 CFR 60 Subpart Dc - Standards of Performance for Small Industrial – Commercial - Institutional Steam Generating Units

NSPS Dc, Section 60.48c(g)(1) requires that the permittee record and maintain records of the amount of each fuel combusted during each day. However, because the unit is restricted to burning only natural gas, in accordance with section 60.48c(g)(2), the fuel recordkeeping is reduced from daily to monthly.

Authority for Requirement: DNR Construction Permit 16-A-341
40 CFR Part 60 Subpart Dc
567 IAC 23.1(2)”lll”
**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 65  
Stack Opening, (inches): 36  
Exhaust Flow Rate (scfm): 14,100  
Exhaust Temperature (°F): 305  
Discharge Style: vertical, unobstructed  
Authority for Requirement: DNR Construction Permit 16-A-341

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

**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-SV13A

Associated Equipment
Associated Emission Unit ID Numbers: EU-60

Emission Unit vented through this Emission Point: EU-60
Emission Unit Description: Protein Dryer-Start-up stack – NG combustion exhaust
Raw Material/Fuel: Natural Gas
Rated Capacity: 62 MMBtu/hr; 8 ton/hr

**Applicable Requirements**

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

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

Pollutant: Opacity
Emission Limit(s): 40%\(^{(1)}\)
Authority for Requirement: DNR Construction Permit 18-A-428
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 corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.55 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 18-A-428
567 IAC 23.3(2)"b"

Pollutant: Particulate Matter (PM10)
Emission Limit(s): 0.55 lb/hr
Authority for Requirement: DNR Construction Permit 18-A-428

Pollutant: Sulfur Dioxide (SO\(_2\))
Emission Limit(s): 0.04 lb/hr; 500 ppm\(_v\)
Authority for Requirement: DNR Construction Permit 18-A-428
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO\(_x\))
Emission Limit(s): 7.3 lb/hr
Authority for Requirement: DNR Construction Permit 18-A-428

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 18.1 lb/hr
Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.40 lb/hr
Authority for Requirement: DNR Construction Permit 18-A-428

Pollutant: Single Hazardous Air Pollutant (HAP)
Emission Limit(s): 0.011 lb/hr
Authority for Requirement: DNR Construction Permit 18-A-428

Pollutant: Total Hazardous Air Pollutant (HAP)
Emission Limit(s): 0.011 lb/hr
Authority for Requirement: DNR Construction Permit 18-A-428

**Operating Requirements with Associated Monitoring and Recordkeeping**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The facility is allowed to operate the start-up stack, EP SV13A, no more than 250 hours in any rolling 12-month period.
B. The owner or operator shall maintain monthly records of EP SV13A operation. The owner or operator shall calculate and record the rolling 12-month totals.
C. The facility shall not route protein to the protein dryer when the protein dryer exhaust is venting through EP SV13A.

Authority for Requirement: DNR Construction Permit 18-A-428

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 75
Stack Opening, (inches): 48
Exhaust Flow Rate (scfm): 45,200
Exhaust Temperature (°F): 340
Discharge Style: vertical, unobstructed
Authority for Requirement: DNR Construction Permit 18-A-428

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.

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** EP-SV15

**Associated Equipment**

<table>
<thead>
<tr>
<th>EU ID</th>
<th>Description</th>
<th>Maximum Rated Capacity</th>
<th>Control Equipment Description and ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU62</td>
<td>Protein Storage Silo #1</td>
<td>Loading rate: 120 tons per hour</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Storage capacity: 600 tons</td>
<td></td>
</tr>
<tr>
<td>EU63</td>
<td>Protein Storage Silo #2</td>
<td>Loading rate: 120 tons per hour</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Storage capacity: 600 tons</td>
<td></td>
</tr>
<tr>
<td>EU64</td>
<td>Protein Loadout System</td>
<td>120 tons per hour</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Baghouse (CE13)</td>
</tr>
</tbody>
</table>

1. The Process design capacity is 88 tons/hr based on a loadout rate of 22 tons per truck and a maximum of 4 trucks per hour

**Raw Material/Fuel:** Protein

### 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 18-A-430-S4
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 corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

**Pollutant: Particulate Matter (PM)**

Emission Limit(s): 0.49 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 18-A-430-S4
567 IAC 23.3(2)"b"

**Pollutant: Particulate Matter (PM\(_{10}\))**

Emission Limit(s): 0.49 lb/hr

Authority for Requirement: DNR Construction Permit 18-A-430-S4

**Pollutant: Volatile Organic Compounds (VOC)**

Emission Limit(s): 0.31 lb/hr

Authority for Requirement: DNR Construction Permit 18-A-430-S4

**Pollutant: Acetaldehyde**

Emission Limit(s): 0.05 lb/hr

Authority for Requirement: DNR Construction Permit 18-A-430-S4
Pollutant: Single Hazardous Air Pollutant (HAP)
Emission Limit(s): 0.10 lb/hr
Authority for Requirement: DNR Construction Permit 18-A-430-S4

Pollutant: Total Hazardous Air Pollutant (HAP)
Emission Limit(s): 0.15 lb/hr
Authority for Requirement: DNR Construction Permit 18-A-430-S4

Operating Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The owner or operator shall maintain the Baghouse (CE13) according to the manufacturer’s specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Baghouse (CE13). This log shall include, but is not necessarily limited to:
   i. The date and time any inspection and/or maintenance was performed on the Baghouse (CE13);
   ii. Any issues identified during the inspection and the date each issue was resolved;
   iii. Any issues addressed during the maintenance activities and the date each issue was resolved; and
   iv. Identification of the staff member performing the maintenance or inspection.

B. The Baghouse (CE13) differential pressure drop shall be maintained between 0.5 to 3.5 inches water column.
   i. The owner or operator shall properly operate and maintain equipment to continuously monitor the differential pressure drop across the baghouse. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer’s recommendations, instructions, and operating manuals.
   ii. The owner or operator shall collect and record the pressure drop across the baghouse, in inches of water, once per calendar day. If the pressure drop across the baghouse falls outside the range specified in Condition B., the owner or operator shall investigate the baghouse and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the baghouse is not in operation.

C. The owner or operator shall loadout a maximum of 52,560 tons of protein per rolling 12-months. On a monthly basis, the owner or operator shall:
   i. Record the total amount of protein loaded out at the facility, in tons; and
   ii. Calculate and record the rolling 12-month total amount of protein loaded out at the facility, in tons.

Authority for Requirement: DNR Construction Permit 18-A-430-S4
**Emission Point Characteristics**
*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 107
- Stack Opening, (inches): 24
- Exhaust Flow Rate (scfm): 22,700
- Exhaust Temperature (°F): ambient
- Discharge Style: vertical, unobstructed
- Authority for Requirement: DNR Construction Permit 18-A-430-S4

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

**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-61

Emission Unit vented through this Emission Point: EU-61
Emission Unit Description: Protein Cooling System
Raw Material/Fuel: Protein
Rated Capacity: 8 ton/hr

**Applicable Requirements**

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

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

Pollutant: Opacity
Emission Limit(s): 40%\(^{(1)}\)
Authority for Requirement: DNR Construction Permit 20-A-112
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 corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.08 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 20-A-112
567 IAC 23.3(2)"b"

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 3.0 lb/hr
Authority for Requirement: DNR Construction Permit 20-A-112

Pollutant: Acetaldehyde
Emission Limit(s): 0.13 lb/hr
Authority for Requirement: DNR Construction Permit 20-A-112

Pollutant: Single Hazardous Air Pollutant (HAP)
Emission Limit(s): 0.15 lb/hr
Authority for Requirement: DNR Construction Permit 20-A-112

Pollutant: Total Hazardous Air Pollutant (HAP)
Emission Limit(s): 0.34 lb/hr
Authority for Requirement: DNR Construction Permit 20-A-112
Operating Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The owner or operator shall maintain the Baghouse (CE14) according to the manufacturer’s specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Baghouse (CE14). This log shall include, but is not necessarily limited to:
   i. The date and time any inspection and/or maintenance was performed on the Baghouse (CE14);
   ii. Any issues identified during the inspection and the date each issue was resolved;
   iii. Any issues addressed during the maintenance activities and the date each issue was resolved; and
   iv. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 20-A-112

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

Stack Height, (ft, from the ground): 130
Stack Opening, (inches): 24
Exhaust Flow Rate (scfm): 18,690
Exhaust Temperature (°F): 105
Discharge Style: vertical, unobstructed

Authority for Requirement: DNR Construction Permit 20-A-112

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.

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-FS001

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-FS001

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Emission Unit vented through this Emission Point: EU-FS001
Emission Unit Description: Paved and Unpaved Plant Roads
Raw Material/Fuel: Traffic Emissions
Rated Capacity: NA

---

**Applicable Requirements**

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

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

**Pollutant:** Opacity
Emission Limit: The owner or operator 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

Authority for Requirement: 567 IAC 23.3(2)"c" (1)

DNR Construction Permit 06-A-351-S4

**Pollutant:** Particulate Matter (PM$_{10}$)
Emission Limit(s): 6.1 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-351-S4

**Pollutant:** Particulate Matter (PM)
Emission Limit(s): 24.2 ton/yr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-351-S4

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**Operating Requirements with Associated Monitoring and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

A. The owner or operator shall do the following related to the use of facility paved roads:

   i. Track the number of trucks that arrive on a monthly basis not using the temporary grain pile.
   
   ii. Sweeping is required to be completed at least once per calendar month.
   
   iii. Test a representative road for silt load at least once every calendar quarter (four tests per calendar year). Silt load testing shall not be completed within at least one week of sweeping.

B. The owner or operator shall keep the following records related to the use of facility paved roads:

   i. Record the number of trucks that arrive on a monthly basis not using the temporary grain pile.
grain pile.

ii. Maintain a record of facility paved road sweeping.

iii. Maintain a record of representative road silt load test data.

C. The owner or operator shall calculate and record the monthly paved road fugitive dust emissions according to the following formula, equation 1 from AP-42 Section 13.2.1.

i. PM10 emission rate is calculated using the following equation which assumes a mean vehicle weight of 29 tons, 1.2 vehicle miles traveled per truck, and 100 days of annual precipitation >0.01 inches.

\[
E = 3.81 \times 10^{-5} \times V \times (sL)^{0.91}
\]

Where \( E \) = tons PM10/month

\( V \) = number of trucks using paved roads for that month,

\( sL \) = surface silt loading in g/m² from that quarter’s test result

D. The owner or operator shall track and record the number of trucks that use the facility’s unpaved roads, on a monthly basis.

E. The owner or operator shall use the unpaved road segment only for activities related to moving grain to and from the temporary grain pile. Silt content sampling of the unpaved road surface shall be conducted at least once each calendar year during which grain is delivered to or removed from the temporary grain pile. This sampling shall be performed during the period of time of operation of the temporary grain pile. If the temporary grain pile is used for more than 3 months during any calendar year, samples shall be taken at least once every 3 months with a maximum of two samples per calendar year. After a minimum of 4 samples are analyzed, if the variability between the samples is less than 25%, then no additional sampling is required. If the variability of the samples is greater than 25%, then sampling shall be continued until a total of 8 samples have been obtained. After 8 samples have been obtained and analyzed, no additional sampling would be required. Silt content testing shall be conducted according to the procedures outlined in AP-42, Appendix C.1 Procedures for Sampling Surface/Bulk Dust Loading and C.2 Procedures for Laboratory Analysis of Surface/Bulk Dust Loading Samples.

F. The owner or operator shall maintain a log for the unpaved haul road silt loading sampling showing the following:

i. The date and time of the performance testing;

ii. The silt load of the road for that month based on testing; and

iii. The silt loading percentage (%) based on the performance testing.

G. The owner or operator shall calculate and record the monthly unpaved roads fugitive dust emissions according to the following formula, equation 1a from AP-42 Section 13.2.2.

i. PM10 emission rate is calculated using the following equation assuming silt content of 8.5%, 0.36 vehicle miles traveled per truck, a mean vehicle weight of 29 tons, and 100 days of annual precipitation >0.01 inches.

\[
E = 3.63 \times 10^{-4} \times V \times (s/12)^{0.9}
\]
Where $E = \text{tons PM10/month}$, and
\[ V = \text{number of trucks using unpaved roads for that month}, \]
and
\[ s = \text{average road surface material silt content percentage (%) } \]
based on silt content performance tests

H. The owner or operator shall update monthly the twelve month rolling total PM10 emissions by adding up the calculated monthly emissions for the previous twelve months. The owner or operator shall immediately notify the IDNR if the twelve month rolling PM10 total exceeds 6.1 tons.

Authority for Requirement: DNR Construction Permit 06-A-351-S4

**Monitoring Requirements**

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency Approved Operation &amp; Maintenance Plan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compliance Assurance Monitoring (CAM) Plan</td>
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</tr>
</tbody>
</table>

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-FS005

Associated Equipment

Associated Emission Unit ID Numbers: EU-FS005

Emission Unit vented through this Emission Point: EU-FS005
Emission Unit Description: Cooling Tower
Raw Material/Fuel: Cooling Water
Rated Capacity: 27,000 gal/min (1.62 MMgal/hr), drift loss of 0.005%

Applicable Requirements

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

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 7.40 ton/yr
   Authority for Requirement: DNR Construction Permit 06-A-349

Operating Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

   A. The Total Dissolved Solids (TDS) level shall not exceed 2,500 mg/l for any single sampling event.
   B. The owner or operator shall test TDS on a monthly basis.
   C. The owner or operator shall keep records of the results of the monthly TDS testing available.

Authority for Requirement: DNR Construction Permit 06-A-349

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: FS006

Associated Equipment

Associated Emission Unit ID Numbers: EU-FS006
Emissions Control Equipment ID Number: CE-FS006
Emissions Control Equipment Description: Leak Detection and Repair

Emission Unit vented through this Emission Point: EU-FS006
Emission Unit Description: VOC Emissions from Equipment Leaks
Raw Material/Fuel: VOC Leaks
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): 8.22 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-350-S4

Pollutant: Single HAP
Emission Limit(s): 0.01 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-350-S4

Pollutant: Total HAP
Emission Limit(s): 0.04 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-350-S4

Operating Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subpart VVa [§60.480a – 60.489a], including those not specifically mentioned in this permit.
   i. The owner or operator shall comply with the applicable recordkeeping and reporting requirements in §60.486a and §60.487a, respectively.

B. The owner or operator shall document on an annual basis the number and types of components used. Components include, but are not limited to, valves, pumps, compressor seals, flanges, etc.

C. The owner or operator shall calculate and record on an annual basis the facility’s VOC emissions, in tons, using the documented component count and the calculation methods.

D. The owner or operator shall calculate and record on an annual basis the facility's HAP emissions, in tons, using the HAP or VOC ratio determined using the potential-to-emit from the regulated process streams multiplied by the VOC emissions calculated in Condition C above.

Authority for Requirement: DNR Construction Permit 06-A-350-S4

**NSPS Subpart VVa Applicability**

This facility is subject to 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.

Authority for Requirement: 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.*

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency Approved Operation &amp; Maintenance Plan Required?</td>
<td></td>
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</tr>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan Required?</td>
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<tr>
<td>Compliance Assurance Monitoring (CAM) Plan Required?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** EP-TK001

**Associated Equipment**

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

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Emission Unit vented through this Emission Point: EU-TK001  
Emission Unit Description: 190 Proof Ethanol Storage Tank  
Raw Material/Fuel: 190 Proof Ethanol  
Rated Capacity: 165,000 gallons

**Applicable Requirements**

**NSPS Subpart Kb Applicability**

This emission unit is subject to NSPS 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

**40 CFR 60.115b Reporting and Recordkeeping Requirements**

(a) After installing control equipment in accordance with 60.112b(a)(1), (fixed roof and internal floating roof), the owner or operator shall meet the following requirements.

1. Furnish the Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of §60.112b(a)(1) and §60.113b(a)(1). This report shall be an attachment to the notification required by §60.7(a)(3).

2. Keep a record of each inspection performed as required by §60.113b (a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

3. If any of the conditions described in §60.113b(a)(2) are detected during the annual visual inspection required by §60.113b(a)(2), a report shall be furnished to the Administrator within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.

4. After each inspection required by §60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in §60.113b(a)(3)(ii), a report shall be furnished to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of §61.112b(a)(1) or §60.113b(a)(3) and list each repair made.
40 CFR § 60.116b Monitoring of Operations

(a) The owner or operator shall keep copies of all records required by this section, except for the record required by paragraph (b) of this section, for at least 2 years. The record required by paragraph (b) of this section will be kept for the life of the source.

(b) The owner or operator of each storage vessel as specified in §60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Each storage vessel with a design capacity less than 75 m³ is subject to no provision of this subpart other than those required by this paragraph.

(c) The owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m³ storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

(d) Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined in 60.116b paragraph (e)

Authority for Requirement: 40 CFR Subpart Kb
567 IAC 23.1(2)“ddd”

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

Stack Height, (ft, from the ground): 40
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): Working and breathing loss
Exhaust Temperature (°F): Ambient (70)
Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 06-A-352-S1

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-TK002

Associated Equipment
Associated Emission Unit ID Numbers: EU-TK002
Emissions Control Equipment ID Number: CE-TK002
Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: EU-TK002
Emission Unit Description: 200 Proof Ethanol Storage Tank
Raw Material/Fuel: 200 Proof Ethanol
Rated Capacity: 165,000 gallons

Applicable Requirements

Operating Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

NSPS Subpart Kb Applicability
This emission unit is subject to NSPS 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

40 CFR 60.115b Reporting and Recordkeeping Requirements
(a) After installing control equipment in accordance with 60.112b(a)(1), (fixed roof and internal floating roof), the owner or operator shall meet the following requirements.

(1) Furnish the Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of §60.112b(a)(1) and §60.113b(a)(1). This report shall be an attachment to the notification required by §60.7(a)(3).

(2) Keep a record of each inspection performed as required by §60.113b(a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

(3) If any of the conditions described in §60.113b(a)(2) are detected during the annual visual inspection required by §60.113b(a)(2), a report shall be furnished to the Administrator within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.

(4) After each inspection required by §60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in §60.113b(a)(3)(ii), a report shall be furnished to the Administrator within 30 days of the inspection. The report shall identify the
storage vessel and the reason it did not meet the specifications of §61.112b(a)(1) or §60.113b(a)(3) and list each repair made.

40 CFR § 60.116b Monitoring of Operations
(a) The owner or operator shall keep copies of all records required by this section, except for the record required by paragraph (b) of this section, for at least 2 years. The record required by paragraph (b) of this section will be kept for the life of the source.
(b) The owner or operator of each storage vessel as specified in §60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Each storage vessel with a design capacity less than 75 m³ is subject to no provision of this subpart other than those required by this paragraph.
(c) The owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m³ storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.
(d) Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined in 60.116b paragraph (e).

Authority for Requirement: 40 CFR Subpart Kb
567 IAC 23.1(2)“ddd”

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 40
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): Working and breathing loss
Exhaust Temperature (°F): Ambient (70)
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 06-A-353-S1

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

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒
Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒
Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒
Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** EP-TK003

**Associated Equipment**
Associated Emission Unit ID Numbers: EU-TK003  
Emissions Control Equipment ID Number: CE-TK003  
Emissions Control Equipment Description: Internal Floating Roof

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Emission Unit vented through this Emission Point: EU-TK003  
Emission Unit Description: Denaturant Storage Tank  
Raw Material/Fuel: Denaturant  
Rated Capacity: 165,000 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.

Emission limits are not required at this time.

**Operating Requirements with Associated Monitoring and Recordkeeping**
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The storage tank shall be limited to storing denaturant only.
B. 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.
C. 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 06-A-354-S1

**NSPS Subpart Kb Applicability**
This emission unit is subject to NSPS 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

**40 CFR 60.115b Reporting and Recordkeeping Requirements**
(a) After installing control equipment in accordance with 60.112b(a)(1), (fixed roof and internal floating roof), the owner or operator shall meet the following requirements.

(1) Furnish the Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of §60.112b(a)(1) and §60.113b(a)(1). This report shall be an attachment to the notification required by §60.7(a)(3).
(2) Keep a record of each inspection performed as required by §60.113b (a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

(3) If any of the conditions described in §60.113b(a)(2) are detected during the annual visual inspection required by §60.113b(a)(2), a report shall be furnished to the Administrator within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.

(4) After each inspection required by §60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in §60.113b(a)(3)(ii), a report shall be furnished to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of §61.112b(a)(1) or §60.113b(a)(3) and list each repair made.

40 CFR § 60.116b Monitoring of Operations
(a) The owner or operator shall keep copies of all records required by this section, except for the record required by paragraph (b) of this section, for at least 2 years. The record required by paragraph (b) of this section will be kept for the life of the source.

(b) The owner or operator of each storage vessel as specified in §60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Each storage vessel with a design capacity less than 75 m³ is subject to no provision of this subpart other than those required by this paragraph.

(c) The owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m³ storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

(d) Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined in 60.116b paragraph (e)

Authority for Requirement:  DNR Construction Permit 06-A-354-S1
40 CFR Subpart Kb
567 IAC 23.1(2)”ddd”
Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): Working and breathing loss
Exhaust Temperature (°F): Ambient (70)
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 06-A-354-S1

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number: EP-TK004 and EP-TK005**

**Associated Equipment**

Associated Emission Unit ID Numbers: See Table 9 below
Emissions Control Equipment ID Number: CE-TK004; CE-TK005
Emissions Control Equipment Description: Internal Floating Roof

**Table 9: Ethanol Storage Tanks**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-TK004</td>
<td>EU-TK004</td>
<td>Denatured Ethanol Storage Tank</td>
<td>Denatured Ethanol</td>
<td>750,000 gallons</td>
</tr>
<tr>
<td>EP-TK005</td>
<td>EU-TK005</td>
<td>Denatured Ethanol Storage Tank</td>
<td>Denatured Ethanol</td>
<td>750,000 gallons</td>
</tr>
</tbody>
</table>

**Applicable Requirements**

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

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

Emission limits are not required at this time.

**Operating Requirements with Associated Monitoring and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

A. The storage tank shall be limited to storing denatured ethanol only.
B. 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.
C. 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 Permits 06-A-355-S1; 06-A-356-S1

**NSPS Subpart Kb Applicability**

These emission units are subject to NSPS 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

40 CFR 60.115b Reporting and Recordkeeping Requirements

(a) After installing control equipment in accordance with 60.112b(a)(1), (fixed roof and internal foaming roof), the owner or operator shall meet the following requirements.

(1) Furnish the Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of §60.112b(a)(1) and
§60.113b(a)(1). This report shall be an attachment to the notification required by §60.7(a)(3).

(2) Keep a record of each inspection performed as required by §60.113b (a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

(3) If any of the conditions described in §60.113b(a)(2) are detected during the annual visual inspection required by §60.113b(a)(2), a report shall be furnished to the Administrator within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.

(4) After each inspection required by §60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in §60.113b(a)(3)(ii), a report shall be furnished to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of §61.112b(a)(1) or §60.113b(a)(3) and list each repair made.

40 CFR § 60.116b Monitoring of Operations

(a) The owner or operator shall keep copies of all records required by this section, except for the record required by paragraph (b) of this section, for at least 2 years. The record required by paragraph (b) of this section will be kept for the life of the source.

(b) The owner or operator of each storage vessel as specified in §60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Each storage vessel with a design capacity less than 75 m³ is subject to no provision of this subpart other than those required by this paragraph.

(c) The owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m³ storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

(d) Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined in 60.116b paragraph (e)

Authority for Requirement: DNR Construction Permits 06-A-355-S1; 06-A-356-S1
40 CFR 60 Subpart Kb
567 IAC 23.1(2)"ddd”
**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 54
- Stack Opening, (inches, dia.): 10
- Exhaust Flow Rate (scfm): Working and breathing loss
- Exhaust Temperature (°F): Ambient (70)
- Discharge Style: Downward
- Authority for Requirement: DNR Construction Permits 06-A-355-S1; 06-A-356-S1

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number:  T-EIA01

Associated Equipment
Associated Emission Unit ID Numbers:  T-EIA01

Emission Unit vented through this Emission Point:  T-EIA01
Emission Unit Description:  Gasoline Storage Tank
Raw Material/Fuel:  Gasoline
Rated Capacity:  150 gallons

Applicable Requirements

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

NESHAP CCCCCC Requirements:
This unit is subject to 40 CFR 63 Subpart CCCCCC-National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities. According to 40 CFR 63.11112(d), this storage tank, located at an area source, is an existing storage tank as it was constructed prior to November 9, 2016

§63.11115 What are my general duties to minimize emissions?
Each owner or operator of an affected source under this subpart must comply with the requirements of paragraphs (a) and (b) of this section.
   a) You must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
   b) You must keep applicable records as specified in §63.11125(d).

§63.11116 Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline(b).
   a) You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
      1. Minimize gasoline spills;
      2. Clean up spills as expeditiously as practicable;
      3. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
      4. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
b) You are not required to submit notifications or reports as specified in §63.11125, §63.11126, or subpart A of this part, but you must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

c) You must comply with the requirements of this subpart by the applicable dates specified in §63.11113.

d) Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(3) of this section.

§63.11125 What are my recordkeeping requirements?
(d) Each owner or operator of an affected source under this subpart shall keep records as specified in paragraphs (d)(1) and (2) of this section.

1) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

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

(1) Monthly throughput means the total volume of gasoline that is loaded into, or dispensed from, all gasoline storage tanks at each GDF during a month. Monthly throughput is calculated by summing the volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the current day, plus the total volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the previous 364 days, and then dividing that sum by 12.

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

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 Permits, 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)

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 modifications 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:

   Chief of Air Permits
   U.S. EPA Region 7
   Air Permits and Compliance Branch
   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**
   7900 Hickman Road, Suite #200
   Windsor Heights, IA 50324
   (515) 725-0268

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

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

   **Linn County Public Health**
   Air Quality Branch
   1020 6th Street SE
   Cedar Rapids, IA 52401
   (319) 892-6000
V. Appendix A: Links to Standards

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

B. 40 CFR Part 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.D_0b

C. 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.D_0c

   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.k_0b

   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.VV_0a

F. 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.IIII

   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.63.A

   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.63.ZZZZ

   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.63.CCCCCC