Iowa Department of Natural Resources  
Title V Operating Permit

Name of Permitted Facility: Cargill Inc. – Iowa Falls  
Facility Location: 602 Industrial Rd., Iowa Falls, IA 50126  
Air Quality Operating Permit Number: 99-TV-050R3  
Expiration Date: 7/26/2020  
Permit Renewal Application Deadline: 1/26/2020

EIQ Number: 92-0760  
Facility File Number: 42-01-003

______________________________________________________________________________

Responsible Official  
Name: Scott Ites  
Title: Crush Plant Superintendent  
Mailing Address: 602 Industrial Rd., Iowa Falls, IA 50126  
Phone #: (641)648-6375

______________________________________________________________________________

Permit Contact Person for the Facility  
Name: Scott Ites  
Title: Crush Plant Superintendent  
Mailing Address: 602 Industrial Rd., Iowa Falls, IA 50126  
Phone #: (641)648-6375

______________________________________________________________________________

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

______________________________________________________________________________

Lori Hanson, Supervisor of Air Operating Permits Section  
Date
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Abbreviations

acfm........................actual cubic feet per minute
CFR..........................Code of Federal Regulation
CE .........................control equipment
CEM .......................continuous emission monitor
°F ........................degrees Fahrenheit
EIQ .......................emissions inventory questionnaire
EP .........................emission point
EU ........................emission unit
gr./dscf ...................grains per dry standard cubic foot
gr./100 cf ....................grains per one hundred cubic feet
IAC ........................Iowa Administrative Code
IDNR ......................Iowa Department of Natural Resources
MVAC ......................motor vehicle air conditioner
NAICS .....................North American Industry Classification System
ppmv ......................parts per million by volume
lb./hr ......................pounds per hour
lb./MMBtu ................pounds per million British thermal units
SCC .......................Source Classification Codes
scfm .......................standard cubic feet per minute
SIC .......................Standard Industrial Classification
TPY .......................tons per year
USEPA ...................United States Environmental Protection Agency
NSPS .....................New Source Performance Standards
NESHAP ..................National Emission Standards for Hazardous Air Pollutant

Pollutants

PM ........................particulate matter
PM$_{10}$ .....................particulate matter ten microns or less in diameter
SO$_2$ ........................sulfur dioxide
NO$_x$ ......................nitrogen oxides
VOC ........................volatile organic compound
CO ..........................carbon monoxide
HAP ........................hazardous air pollutant
## I. Facility Description and Equipment List

**Facility Name:** Cargill Inc. – Iowa Falls  
**Permit Number:** 99-TV-050R3  
**Facility Description:** Soybean Processing Plant (SIC 2075), Biodiesel Production (SIC 2869)

### Equipment List

<table>
<thead>
<tr>
<th>Emission Point</th>
<th>Emission Unit</th>
<th>Emission Unit Description</th>
<th>DNR Construction Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-01</td>
<td>EU-1.1</td>
<td>Millfeed Baghouse - hull grinder</td>
<td>78-A-071-S9</td>
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<td>pod grinder</td>
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<td>EP-07</td>
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<td>Truck Unloading and Conveyance</td>
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<td>Grain Transferring Conveyance</td>
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<td>splits &amp; seeds aspirator</td>
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<td>dryer aspirator &amp; aspiration silo</td>
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<td>Emission Unit Description</td>
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<td>EU-F1</td>
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<td>EU-F2</td>
<td>Product Loadout</td>
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<td>EP-F3</td>
<td>EU-F3</td>
<td>Haul Roads Fugitive</td>
<td>06-A-763-S1</td>
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<td>EP-F4</td>
<td>EU-F4</td>
<td>Hexane Emissions from Biodiesel Process</td>
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## Insignificant Emission Units

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<td>E-Weld</td>
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<td>E-FO1</td>
<td>Fuel Oil Tank</td>
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<td>E-1</td>
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<td>Biodiesel Storage Tank</td>
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<td>E-3</td>
<td>HCl Tank</td>
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<td>E-4</td>
<td>Outside Veg. Oil Storage Tank (biodiesel Facility)</td>
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<td>E-5</td>
<td>Animal Fats Storage Tank</td>
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<td>E-6</td>
<td>3.75 MMBtu/hr Boiler (Natural Gas only) biodiesel Facility</td>
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<td>E-7</td>
<td>#2 Fuel Oil Tank at biodiesel Facility</td>
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<td>Cooling Tower 1</td>
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<td>Cooling Tower 2</td>
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<td>E-15</td>
<td>East Meal Silo Vent Filter Fan</td>
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<td>Meal Receiving Bin Vent Fan</td>
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<td>Exceeds Pro Meal Silo Vent Filter Fan</td>
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<td>Exceeds Pro Meal RLO Bin Vent Filter Fan</td>
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<td>E-19</td>
<td>Exceeds Pro Meal TLO Bin Vent Filter Fan</td>
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<td>E-20</td>
<td>Soypass Meal Silo Vent Filter Fan</td>
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<tr>
<td>DAF</td>
<td>DAF Unit (Dissolve Air Flotation)</td>
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<tr>
<td>FLARE2</td>
<td>Wastewater Flare</td>
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</table>
II. Plant-Wide Conditions

Facility Name: Cargill Inc. – Iowa Falls
Permit Number: 99-TV-050R3

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

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**Permit Duration**

The term of this permit is: Five years from permit issuance
Commencing on: 7/27/2015
Ending on: 7/26/2020

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

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**Emission Limits**

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

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

**Sulfur Dioxide (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 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 - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. 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 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 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, fertilizers 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.

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

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**Consent Decree**

On March 3, 2006, the Federal District Court in Minnesota entered a Consent Decree between Cargill, Incorporated, U.S. EPA, Iowa Department of Natural Resources and other participating agencies. U.S. et al v. Cargill, Incorporated Civil Action Number 05-2037JMR/FLN. This Consent Decree is hereby incorporated in its entirety into this permit. During the effective period of the Consent Decree, Cargill shall comply with the specific emission reduction requirements, emission limits, operating parameters, monitoring requirements, recordkeeping requirements, and any other applicable requirements specified in the Consent Decree and applicable to this facility. Where a conflict exists, these requirements shall supersede and control over corresponding terms and conditions of this permit. A copy of this Consent Decree is included as Appendix K of this permit.

Authority for Requirement: Civil Action Number 05-2037JMR/FLN

567 IAC 22.108(1)
### III. Emission Point-Specific Conditions

Facility Name: Cargill Inc. – Iowa Falls  
Permit Number: 99-TV-050R3  

#### Emission Point ID Number: EP-01

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-01.1, EU-01.2, EU-01.3, EU-01.5  
Emissions Control Equipment ID Number: CE-01  
Emissions Control Equipment Description: Baghouse

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Description</th>
<th>Raw Material</th>
<th>Rated Capacity, tons/hr</th>
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</thead>
<tbody>
<tr>
<td>EP-01</td>
<td>EU-01.1</td>
<td>Hull Grinding</td>
<td>Soybeans</td>
<td>7.1</td>
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<td>EU-01.2</td>
<td>Pod Grinder</td>
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<td>1.5</td>
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<td></td>
<td>EU-01.3</td>
<td>Prep Aspiration Cyclone</td>
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<td>EU-01.5</td>
<td>Pellet Transfer</td>
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</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.*

Emission Limits for EU-01.1, EU-01.2, and EU-01.3

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>lb/hr</th>
<th>tons/yr</th>
<th>Additional Limits</th>
<th>Authority for Requirement</th>
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<tr>
<td>Opacity</td>
<td>NA</td>
<td>NA</td>
<td>40% (1)</td>
<td>567 IAC 23.3(2) &quot;d&quot;</td>
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<td>DNR Construction Permit 78-A-071-S9</td>
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<td>Particulate Matter (PM_{10})</td>
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<td>567 IAC 23.4(7)</td>
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<td>Particulate Matter (PM)</td>
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<td>0.1 gr/dscf</td>
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</tbody>
</table>

(1) If visible emissions are observed, the owner/operator shall 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).

Emission Limits for EU-01.1, EU-01.2, EU-01.3, and EU-01.5

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>lb/hr</th>
<th>tons/yr</th>
<th>Additional Limits</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opacity</td>
<td>NA</td>
<td>NA</td>
<td>40% (2)</td>
<td>567 IAC 23.3(2) &quot;d&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DNR Construction Permit 78-A-071-S9</td>
</tr>
<tr>
<td>Particulate Matter (PM_{10})</td>
<td>0.60</td>
<td>NA</td>
<td>NA</td>
<td>567 IAC 23.4(7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DNR Construction Permit 78-A-071-S9</td>
</tr>
<tr>
<td>Particulate Matter (PM)</td>
<td>0.60</td>
<td>NA</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.4(7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DNR Construction Permit 78-A-071-S9</td>
</tr>
</tbody>
</table>

(2) 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).
**Operational Limits & Requirements**

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

**Operating Limits**

Operating limits for this emission unit shall be:

A. The owner or operator shall operate and maintain the control equipment according to manufacturer’s specifications and instructions.

B. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.

**Reporting and Recordkeeping**

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

A. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the control equipment.

B. The owner or operator shall maintain the following daily records:
   
i. The amount, in bushels, of grain processed at the facility.
   
ii. The 365-day rolling average for the amount of grain processed at the facility, in bushels per day.

Authority for Requirement: DNR Construction Permit 78-A-071-S9

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 140
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 6800
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 78-A-071-S9

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.
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-02**

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-02.1
Emissions Control Equipment ID Number: CE-2.0
Emissions Control Equipment Description: Baghouse

---

Emission Unit vented through this Emission Point: EU-02.1
Emission Unit Description: Bean Rail Road Unload
Raw Material/Fuel: Soybeans
Rated Capacity: 25,000 bu/day

**Applicable Requirements**

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

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

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 94-A-523-S2
567 IAC 23.1(2) "ooo"
40 CFR 60 Subpart DD

Pollutant: Particulate Matter (PM$_{10}$)
Emission Limit(s): 0.045 lb/hr
Authority for Requirement: DNR Construction Permit 94-A-523-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 94-A-523-S2
567 IAC 23.1(2) "ooo"
40 CFR 60 Subpart DD

**Operational Limits & Requirements**

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

**Operating Limits**

A. The owner or operator shall install permanent structures which will allow ready access to the Bean Rail Unloading Aspirator baghouse.

B. The owner or operator shall install sampling ports adequate for the test methods specified in Permit Condition 13.

C. The owner or operator of the Bean Rail Unloading Aspirator shall establish a written Operation and Maintenance (O+M) Plan which includes a schedule for periodic inspection of the bags in the Bean Rail Unloading Aspirator baghouse.

D. The owner or operator is required to operate the Bean Rail Unloading Aspirator and baghouse within the operating limits specified by the manufacturers.
E. The owner or operator is required to use bags in the Bean Rail Unloading Aspirator baghouse which have a collection efficiency equal to or greater than the collection efficiency of the bags installed during initial emissions compliance testing.

**Reporting and Recordkeeping**

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

A. Maintenance and repairs performed on the Bean Rail Unloading Aspirator baghouse;
B. Bag manufacturer's specifications which include collection efficiency of bags installed in the Bean Rail Unloading Aspirator baghouse; and
C. Dates on which bags in Bean Rail Unloading Aspirator baghouse were installed.

Authority for Requirement: DNR Construction Permit 94-A-523-S2

**NSPS and NESHAP applicability**

This emission point is subject to NSPS Subpart A – General Provision and Subpart DD – Standards of Performance for Grain Elevators. The facility shall conform to all parts of this subpart that applies to this emission point and maintain the appropriate records.

Authority for Requirement: DNR Construction Permit 94-A-523-S2

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 36
Stack Opening, (inches, dia.): 19.3
Exhaust Flow Rate (acfm): 5600
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 94-A-523-S2

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.
Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)"b"

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-04

Associated Equipment

Associated Emission Unit ID Numbers: EU-04.1, EU-04.2, EU-04.3
Emissions Control Equipment ID Number: CE-4.0
Emissions Control Equipment Description: Bag Filter

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity, bu/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-04.0</td>
<td>EU-04.1</td>
<td>Meal Grinding</td>
<td>Soybeans</td>
<td>95,000</td>
</tr>
<tr>
<td></td>
<td>EU-04.2</td>
<td>Conveying</td>
<td></td>
<td>95,000</td>
</tr>
<tr>
<td></td>
<td>EU-04.3</td>
<td>Metered Flow Agent</td>
<td>Flow Agent</td>
<td>95,000</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 85-A-106-S4
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): 1.29 lb/hr (2)
Authority for Requirement: DNR Construction Permit 85-A-106-S4

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf; 1.29 lb/hr
Authority for Requirement: DNR Construction Permit 85-A-106-S4
567 IAC 23.3(2) "a"
**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 8  
Stack Opening, (inches, dia.): 12  
Exhaust Flow Rate (scfm): 15,000  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical without rain cap or with unobstructing rain cap

Authority for Requirement: DNR Construction Permit 85-A-106-S4

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**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-07

Associated Equipment

Associated Emission Unit ID Numbers: EU-07.1
Emissions Control Equipment ID Number: CE-7.0
Emissions Control Equipment Description: Baghouse

EP=Emission Point, EU=Emission Unit

<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-07</td>
<td>EU-7.1</td>
<td>Truck Unloading and Conveyance</td>
<td>Soybeans</td>
<td>25,000 bu/hr</td>
</tr>
<tr>
<td></td>
<td>EU-7.2</td>
<td>Grain Transferring Conveyance</td>
<td></td>
<td>5,000 bu/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): 0%
Authority for Requirement: DNR Construction Permit 75-A-213-S7
567 IAC 23.1(2) "ooo"
40 CFR 60 Subpart DD

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.33 lb/hr
Authority for Requirement: DNR Construction Permit 75-A-213- S7

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 0.33 lb/hr
Authority for Requirement: DNR Construction Permit 75-A-213- S7

Pollutant: Particulate Matter (PM) - Federal
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 75-A-213- S7
567 IAC 23.1(2) "ooo"
40 CFR 60 Subpart DD
**Operational Limits & Requirements**

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

**Operating Limits**

Operating limits for this emission unit shall be:

A. The owner or operator shall operate and maintain the control equipment according to manufacturer’s specifications and instructions.

B. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.

**Reporting and Recordkeeping**

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

A. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the control equipment.

B. The owner or operator shall maintain the following daily records:

   i. The amount, in bushels, of grain processed at the facility.

   ii. The 365-day rolling average for the amount of grain processed at the facility, in bushels per day.

**NSPS and NESHAP applicability**

This emission point is subject to NSPS Subpart A – General Provisions and NSPS Subpart DD – Standards of Performances for Grain Elevators. The facility shall conform to all parts of this subpart that applies to this emission point and maintain the appropriate records.

Authority for Requirement: DNR Construction Permit 75-A-213- S7

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 8
Stack Opening, (inches): 19×26
Exhaust Flow Rate (scfm): 9,600
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 75-A-213- S7

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.
Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - Opacity
1st Stack Test to be Completed by (date) – within sixty (60) days after achieving maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment.
Test Method - 40 CFR 60, Appendix A, Method 9
Authority for Requirement - DNR Construction Permit 75-A-213-S7

Pollutant – PM_{10}
1st Stack Test to be Completed by (date) – within sixty (60) days after achieving maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment.
Test Method - 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement - DNR Construction Permit 75-A-213-S7

Pollutant – PM-State
1st Stack Test to be Completed by (date) – within sixty (60) days after achieving maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment.
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51 Appendix M Method 202
Authority for Requirement - DNR Construction Permit 75-A-213-S7

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)

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.
If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.
Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)"b"
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-08

Associated Equipment

Associated Emission Unit ID Numbers: EU-08.1, EU-08.2, EU-08.3, EU-08.4
Emissions Control Equipment ID Number: CE-8.0
Emissions Control Equipment Description: Baghouse

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity, bu/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-08</td>
<td>EU-08.1</td>
<td>Grain Cleaning</td>
<td></td>
<td>5,000 (total)</td>
</tr>
<tr>
<td></td>
<td>EU-08.2</td>
<td>Split and Seed Aspiration</td>
<td>Soybeans</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>EU-08.3</td>
<td>Dryer Aspirator and Aspiration Silo</td>
<td></td>
<td>5,000</td>
</tr>
<tr>
<td></td>
<td>EU-08.4</td>
<td>Conveying</td>
<td></td>
<td>5,000</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): 0%
Authority for Requirement: DNR Construction Permit 81-A-025-S4
567 IAC 23.1(2) "ooo"
40 CFR 60 Subpart DD

Pollutant: Particulate Matter (PM$_{10}$)
Emission Limit(s): 0.4 lb/hr
Authority for Requirement: DNR Construction Permit 81-A-025-S4

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 0.40 lb/hr
Authority for Requirement: DNR Construction Permit 81-A-025-S4

Pollutant: Particulate Matter (PM) - Federal
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 81-A-025-S4
567 IAC 23.1(2) "ooo"
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits

A. The owner or operator shall operate and maintain the control equipment according to manufacturer’s specifications and instructions.
B. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.

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

A. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the control equipment.
B. The owner or operator shall maintain the following daily records:
   i. The amount, in bushels, of grain processed at the facility.
   ii. The 365-day rolling average for the amount of grain processed at the facility, in bushels per day.

Authority for Requirement: DNR Construction Permit 81-A-025-S4

NSPS and NESHAP Applicability
This emission unit is subject to NSPS Subpart A – General Provisions and NSPS Subpart DD, Standards of Performance for Grain Elevators. The facility shall conform to all parts of this subpart that applies to this emission unit and maintain the appropriate records.

Authority for Requirement: DNR Construction Permit 81-A-025-S4

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 134
Stack Opening, (inches, dia.): 34.6
Exhaust Flow Rate (scfm): 25,000
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 81-A-025-S4

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.
**Monitoring Requirements**

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

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)"b"

**Agency Approved Operation & Maintenance Plan Required?** ☑️ No ☐

**Facility Maintained Operation & Maintenance Plan Required?** ☑️ No ☐

**Compliance Assurance Monitoring (CAM) Plan Required?** ☑️ 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-09

Associated Equipment

Associated Emission Unit ID Numbers: EU-9.1, EU-9.2
Emissions Control Equipment ID Number: None

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<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-09</td>
<td>EU-09.1</td>
<td>Grain Drying</td>
<td>Soybeans</td>
<td>5,000 bu/hr</td>
</tr>
<tr>
<td></td>
<td>EU-09.2</td>
<td>Drying Burner</td>
<td></td>
<td>28.6 MMBtu/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): 0%
Authority for Requirement: DNR Construction Permit 81-A-023-S6
567 IAC 23.1(2) "ooo"
40 CFR 60 Subpart DD

Pollutant: Particulate Matter (PM<sub>10</sub>)
Emission Limit(s): 1.60 lb/hr
Authority for Requirement: DNR Construction Permit 81-A-023-S6

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 1.60 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 81-A-023-S6
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 81-A-023-S6
567 IAC 23.3 (3)"e"

Operational Limits & Requirements

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

Operating Limits

Operating limits for this emission unit shall be:

A. The owner or operator shall operate and maintain the column dryer according to manufacturer’s specifications and instructions.
B. The facility shall only combust natural gas or liquid propane (LP) in this column dryer.
C. The use of the bean pre-cleaner system (EP #8 Elevator Cleaning & Transfer Aspirator) is required whenever the column dryer is in use.
D. The column dryer shall have column plate perforations not to exceed 2.4 mm in diameter (ca. 0.094 inch).
E. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.

**Reporting and Recordkeeping**

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

A. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the column dryer.

B. The owner or operator shall maintain the following daily records:

   i. The amount, in bushels, of grain processed at the facility.

   ii. The 365-day rolling average for the amount of grain processed at the facility, in bushels per day.

**Authority for Requirement:** DNR Construction Permit 81-A-023-S6

**NSPS and NESHAP Applicability**

This emission unit is subject to NSPS Subpart A – General Provisions and NSPS Subpart DD, Standards of Performance for Grain Elevators as specified in §60.300.

**Authority for Requirement:** DNR Construction Permit 81-A-023-S6

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 62
- Stack Opening, (inches): 216×234 (vents near top of column on opposite sides)
- Exhaust Flow Rate (scfm): 93,241
- Exhaust Temperature (°F): 80
- Discharge Style: Horizontal

**Authority for Requirement:** DNR Construction Permit 81-A-023-S6

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

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

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.
If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)"b"

| 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-10

Associated Equipment

Associated Emission Unit ID Numbers: EU-10.1
Emissions Control Equipment ID Number: CE-10
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-10.1
Emission Unit Description: Bean Truck Dump
Raw Material/Fuel: Soybeans
Rated Capacity: 637.5 tons/yr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 89-A-105-S5
567 IAC 23.1(2) "ooo"
40 CFR 60 Subpart DD

Pollutant: Particulate Matter (PM$_{10}$)
Emission Limit(s): 0.36 lb/hr; 1.58 tons/yr
Authority for Requirement: DNR Construction Permit 89-A-105-S5

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.58 tons/yr; 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 89-A-105-S5
567 IAC 23.1(2) "ooo"
40 CFR 60 Subpart DD

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

Operating Limits
The control equipment shall be inspected and maintained according to manufacturer’s recommendations/specifications.

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

The permit holder, owner and operator of the facility shall maintain records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 89-A-105-S5
NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and NSPS Subpart DD – Standards of Performance for Grain Elevators. The facility shall conform to all parts of this subpart that applies to this emission point and maintain the appropriate records.

Authority for Requirement: DNR Construction Permit 89-A-105-S5

Emission Point Characteristics

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

Stack Height, (ft, from the ground): 40.3
Stack Opening, (inches, dia.): 27.6
Exhaust Flow Rate (scfm): 15,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 89-A-105-S5

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)"b"

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-11

Associated Equipment

Emissions Control Equipment ID Number: CE-11
Emissions Control Equipment Description: Baghouse

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<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-11</td>
<td>EU-11.1</td>
<td>Cracking</td>
<td>Soybeans</td>
<td>118.75 tons/hr</td>
</tr>
<tr>
<td></td>
<td>EU-11.2</td>
<td>Dehulling and Aspiration</td>
<td></td>
<td>118.75 tons/hr</td>
</tr>
<tr>
<td></td>
<td>EU-11.3</td>
<td>Hull Sifter Cyclone</td>
<td></td>
<td>118.75 tons/hr</td>
</tr>
<tr>
<td></td>
<td>EU-11.4</td>
<td>Hull Aspiration</td>
<td></td>
<td>118.75 tons/hr</td>
</tr>
<tr>
<td></td>
<td>EU-11.5</td>
<td>Conveying</td>
<td></td>
<td>118.75 tons/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): 20% (1)
Authority for Requirement: DNR Construction Permit 86-A-151-S3
567 IAC 23.3(2) "d"

Pollutant: Particulate Matter (PM$_{10}$)
Emission Limit(s): 0.50 lb/hr
Authority for Requirement: DNR Construction Permit 86-A-151-S3

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 0.50 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 86-A-151-S3
567 IAC 23.4 (7)

(1) If visible emissions are observed, the owner/operator shall 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).

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

Operating Limits
Operating limits for this emission unit shall be:

A. The owner or operator shall operate and maintain the control equipment according to manufacturer’s specifications and instructions.

B. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.
Reporting and Recordkeeping
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the control equipment.

B. The owner or operator shall maintain the following daily records:
   i. The amount, in bushels, of grain processed at the facility.
   ii. The 365-day rolling average for the amount of grain processed at the facility, in bushels per day.

Authority for Requirement: DNR Construction Permit 86-A-151-S3

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

Stack Height, (ft. from the ground): 12
Stack Opening, (inches, dia.): 36.5
Exhaust Flow Rate (scfm): 29,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 86-A-151-S3

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.
Authority for Requirement: 567 IAC 22.108(3)"b"

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)
CAM Plan for EP-11 Baghouse

I. **Background**

A. Emissions Unit
   - **Description:** Primary Dehulling
   - **Identification:** EU-11.1, EU-11.2, EU-11.3, EU-11.4, EU-11.5
   - **Facility:** Cargill Inc. – Iowa Falls
     602 Industrial Park Rd.
     Iowa Falls, IA 50126

B. Applicable Regulation, Emission Limit, and Monitoring Requirements
   - **Regulation No.:** Permit 86-A-151-S3
   - **Particulate emission limit:** 0.10 gr/scf for PM; 0.50 lb/hr PM$_{10}$
   - **Opacity emission limit:** 0%
   - **Current Monitoring requirements:** Stack Testing, weekly opacity readings

C. Control Technology: Fabric Filter

II. **Monitoring Approach**

A. Indicator
   - Daily pressure drop checks will be used as an indicator.

B. Measurement Approach
   - Pressure drop will be checked daily to ensure that the pressure drop is in the range of 2 to 8 inches of water during the material handling operation of the unit.

C. Indicator Range
   - Pressure drop should not exceed 8 inches of H$_2$O.

D. QIP (Quality Improvement Plan) Threshold
   - The QIP threshold is six excursions in a six month reporting period.

E. Performance Criteria
   - **Data representativeness:** An increase in pressure drop above 8 inches of water would indicate a decrease in the performance of the baghouse and potentially indicate an increase of particulate emissions.
   - **Verification of operational status:** Records of pressure drop readings will be maintained for five years.
   - **QA/QC practices and criteria:** The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop a pressure drop greater than 8 inches of water is observed, corrective action will be taken within 8 hours.
   - **Monitoring frequency and data Collection procedure:** Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.
**Emission Point ID Number: EP-14**

Associated Equipment

Associated Emission Unit ID Numbers: EU-14.1, EU-14.2
Emissions Control Equipment ID Number: CE-14.1
Emissions Control Equipment Description: Cyclone

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<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-14</td>
<td>EU-14.1</td>
<td>Flaking</td>
<td>Soybeans</td>
<td>118.75 ton/hr</td>
</tr>
<tr>
<td></td>
<td>EU-14.2</td>
<td>Conveying</td>
<td></td>
<td>118.75 ton/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 83-A-153-S7
567 IAC 23.3(2) "d"

(1) If visible emissions are observed, the owner/operator shall 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): 1.35 lb/hr
Authority for Requirement: DNR Construction Permit 83-A-153-S7

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 1.35 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 83-A-153-S7
567 IAC 23.4(7)

**Operational Limits & Requirements**

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

**Operating Limits**

Operating limits for this emission unit shall be:

A. The owner or operator shall operate and maintain the control equipment according to manufacturer’s specifications and instructions.

B. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.
Reporting and Recordkeeping

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

A. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the control equipment.

B. The owner or operator shall maintain the following daily records:
   i. The amount, in bushels, of grain processed at the facility.
   ii. The 365-day rolling average for the amount of grain processed at the facility, in bushels per day.

Authority for Requirement: DNR Construction Permit 83-A-153-S7

NSPS and NESHAP Applicability

The Soybean Extraction Process is subject to Subpart A (General Provisions, 40 CFR §63.1 – 40 CFR §63.15) and Subpart GGGG (Solvent Extraction for Vegetable Oil Production, 40 CFR §63.2830 – 40 CFR §63.2872) of the National Emission Standards for Hazardous Air Pollutants (NESHAP). There are no specific requirements for the emission units in this permit.

Authority for Requirement: DNR Construction Permit 83-A-153-S7

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40.5
Stack Opening, (inches): 19×16.5
Exhaust Flow Rate (scfm): 10,000
Exhaust Temperature (°F): 145
Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 83-A-153-S7

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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-15

Associated Equipment

Associated Emission Unit ID Numbers: EU-15.1, EU-15.2
Emissions Control Equipment ID Number: CE-15
Emissions Control Equipment Description: Baghouse

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<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</td>
<td>EU-15.1</td>
<td>Bulk Loading</td>
<td>Meal/Hulls</td>
<td>95,000 bu/day</td>
</tr>
<tr>
<td></td>
<td>EU-15.2</td>
<td>Conveying</td>
<td></td>
<td>95,000 bu/day</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%
Authority for Requirement: 567 IAC 23.2(4) "d"

Pollutant: Particulate Matter (PM<sub>10</sub>)
Emission Limit(s): 0.0008 gr/scf; 0.02 lb/hr; 0.09 tons/yr
Authority for Requirement: DNR Construction Permit 85-A-107-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/scf; 5.17 lb/hr
Authority for Requirement: DNR Construction Permit 85-A-107-S2
567 IAC 23.4(7)

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

Stack Height, (ft, from the ground): 28
Stack Opening, (inches, dia.): 12.5
Exhaust Flow Rate (scfm): 3,205
Exhaust Temperature (°F): Ambient
Discharge Style: N/A
Authority for Requirement: DNR Construction Permit 85-A-107-S2

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.
**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-26

Associated Equipment


Emissions Control Equipment ID Number: None

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<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-26</td>
<td>EU-26.1</td>
<td>Erie City Boiler</td>
<td>Natural Gas</td>
<td>48.9 MMBtu/hr</td>
</tr>
<tr>
<td></td>
<td>EU-26.2</td>
<td></td>
<td>#2 Fuel Oil (backup)</td>
<td>0.349 Kgal/hr</td>
</tr>
<tr>
<td></td>
<td>EU-26.3</td>
<td></td>
<td>Soybean Oil (backup)</td>
<td>0.349 Kgal/hr</td>
</tr>
<tr>
<td></td>
<td>EU-26.4</td>
<td></td>
<td>Animal Fats (backup)</td>
<td>0.349 Kgal/hr</td>
</tr>
<tr>
<td></td>
<td>EU-26.5</td>
<td></td>
<td>Biodiesel Heavies &amp; Distillates (backup)</td>
<td>26.4 MMBtu/hr</td>
</tr>
<tr>
<td></td>
<td>EU-26.6</td>
<td></td>
<td>Biodiesel (backup)</td>
<td>0.1886 Kgal/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 79-A-188-S8

567 IAC 23.3(2) "d"

(1) Visible emissions, other than those observed during startup, shutdown, or malfunction, 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): 3.18 lb/hr

Authority for Requirement: DNR Construction Permit 79-A-188-S8

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 79-A-188-S8

567 IAC 23.3(2) "b"(3)

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

Emission Limit(s): 500 ppm (for natural gas)

Authority for Requirement: DNR Construction Permit 79-A-188-S8

567 IAC 23.3(3) "e"

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

Emission Limit(s): 2.5 lb/MMBtu (for liquid fuels)

Authority for Requirement: DNR Construction Permit 79-A-188-S8

567 IAC 23.3(3) "b"
**Operational Limits & Requirements**

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

**Operating Limits**

A. The owner or operator shall inspect, maintain, and operate this unit (EU 43) according to manufacturer instructions and specifications.

B. This emission unit shall be limited to using any of the following fuels (or any combination of these fuels): #2 Fuel Oil; Natural Gas; Vegetable Oil; Animal Fats (Tallow); biodiesel; biodiesel heavies; and/or distillates.

C. The Sulfur content of the #2 Fuel Oil used in this boiler shall not exceed 0.25%, by weight.

D. The Sulfur content of the Vegetable Oil used in this boiler shall not exceed 0.15%, by weight.

E. The Crush Plant Boilers (EP 26, EP 34 & EP 34.2) shall not use more than 3,000,000 gallons of #2 Fuel Oil, Vegetable Oil, Animal Fats (Tallow), biodiesel, biodiesel heavies and/or distillates as fuel per twelve-month rolling period.

F. The Erie City Boiler (EP 26) shall not combust more than 204 gallons per hour of biodiesel heavies.

**Reporting and Recordkeeping**

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

A. The owner or operator shall maintain a record of all inspections and maintenance for this unit (EP 26).

B. The owner or operator shall keep records of the Sulfur content of the #2 Fuel Oil and Vegetable Oil combusted in this boiler. This may be done by testing or vendor certification.

C. The owner or operator shall record the total amount of #2 Fuel Oil, Vegetable Oil, Animal Fats (Tallow), biodiesel, biodiesel heavies and/or distillates combusted at the Crush Plant Boilers (EP 26, EP 34 & EP 34.2) using a twelve-month rolling total.

D. The owner or operator shall keep records of the amount and type of fuel combusted in this boiler per day.
E. The owner or operator shall keep records of the average daily biodiesel heavies combustion rate. The rate shall be calculated and recorded each day biodiesel heavies are combusted. Compliance with the gallons per hour limit listed in Condition 14.E of this permit shall be determined by:

\[
\text{Average daily biodiesel heavies combustion rate (gal/hr)} = \frac{\text{total biodiesel heavies combusted per day (gallons)}}{\text{number of hours the biodiesel heavies combusted per day (hrs)}}
\]

Note, "biodiesel heavies" are the bottoms out of the distillation column during the processing of vegetable oil to biodiesel.

Authority for Requirement: DNR Construction Permit 79-A-188-S8

NSPS and NESHAP Applicability

This boiler (EU 26) is of the source category affected by the following federal regulation: National Emission Standard for Hazard Air Pollutants (NESHAP) for Industrial-Commercial-Institutional Boilers and Process Heaters [40 CFR 63 Subpart DDDDD; 567 IAC 23.1(4)"dd"].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD
DNR Construction Permit 79-A-188-S8

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 47.7
Stack Opening, (inches, dia.): 42
Exhaust Flow Rate (acfm): 12,000
Exhaust Temperature (°F): 420
Discharge Style: Vertical, Obstructed

Authority for Requirement: DNR Construction Permit 79-A-188-S8

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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-27

**Associated Equipment**

- **Associated Emission Unit ID Numbers:** EU-27.1, EU-27.2
- **Emissions Control Equipment ID Number:** CE-27
- **Emissions Control Equipment Description:** Baghouse

**Emission Unit vented through this Emission Point:** EU-27.1, EU-27.2

**Emission Unit Description:** Meal Loadout Storage

**Raw Material/Fuel:** Soybean Hulls

**Rated Capacity:** 95,000 bu/day for each unit

**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:** DNR Construction Permit 80-A-101-S3

567 IAC 23.3(2) "d"

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

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

**Emission Limit(s):** 0.143 lb/hr

**Authority for Requirement:** DNR Construction Permit 80-A-101-S3

**Pollutant:** Particulate Matter (PM)

**Emission Limit(s):** 0.1 gr/dscf; 0.143 lb/hr

**Authority for Requirement:** DNR Construction Permit 80-A-101-S3

567 IAC 23.4(7)

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

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

**Stack Opening, (inches, dia.):** 12

**Exhaust Flow Rate (scfm):** 167

**Exhaust Temperature (°F):** Ambient

**Discharge Style:** Vertical w/o rain cap or w/ unobstructing rain cap

**Authority for Requirement:** DNR Construction Permit 80-A-101-S3

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 any of the emission
point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**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>
<td>☒</td>
</tr>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan Required?</td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>Compliance Assurance Monitoring (CAM) Plan Required?</td>
<td></td>
<td>☒</td>
</tr>
</tbody>
</table>

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-29**

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-29.1, EU-29.2
Emissions Control Equipment ID Number: CE-29.1–CE-29.6
Emissions Control Equipment Description: Cyclones

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<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-29</td>
<td>EU-29.1</td>
<td>Drying – 4 decks</td>
<td>Soybeans</td>
<td>118.75 ton/hr</td>
</tr>
<tr>
<td></td>
<td>EU-29.2</td>
<td>Cooling – 4 decks</td>
<td></td>
<td>118.75 ton/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 89-A-106-S5
567 IAC 23.3 (2) "d"

(1) If visible emissions are observed, the owner/operator shall 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\textsubscript{10})
Emission Limit(s): 3.02 lb/hr
Authority for Requirement: DNR Construction Permit 89-A-106-S5

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 5.17 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 89-A-106-S5
567 IAC 23.4(7)

**Operational Limits & Requirements**

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

**Operating Limits**

Operating limits for this emission unit shall be:

A. The owner or operator shall operate and maintain the control equipment according to manufacturer’s specifications and instructions.
B. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.
Reporting and Recordkeeping
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the control equipment.
B. The owner or operator shall maintain the following daily records:
   i. The amount, in bushels, of grain processed at the facility.
   ii. The 365-day rolling average for the amount of grain processed at the facility, in bushels per day.

Authority for Requirement: DNR Construction Permit 89-A-106-S5

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

Stack Height, (ft, from the ground): 90
Stack Opening, (inches, dia.): 60
Exhaust Flow Rate (scfm): 55,000
Exhaust Temperature (°F): 120
Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 89-A-106-S5

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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-30

Associated Equipment

Associated Emission Unit ID Numbers: EU-30.1
Emissions Control Equipment ID Number: None

Emission Unit vented through this Emission Point: EU-30.1
Emission Unit Description: Soybean Conditioning
Raw Material/Fuel: Soybeans
Rated Capacity: 118.75 ton/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 20%\(^{(1)}\)
Authority for Requirement: DNR Construction Permit 94-A-534-S3
567 IAC 23.3(2) "d"

\(^{(1)}\) If visible emissions are observed, the owner/operator shall 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): 0.09 lb/hr
Authority for Requirement: DNR Construction Permit 94-A-534-S3

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 0.09 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 94-A-534-S3
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

Operating limits for this emission unit shall be:

A. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.
Reporting and Recordkeeping

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

A. The owner or operator shall maintain the following daily records:
   i. The amount, in bushels, of grain processed at the facility.
   ii. The 365-day rolling average for the amount of grain processed at the facility, in bushels per day.

Authority for Requirement: DNR Construction Permit 94-A-534-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 95
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 100
Exhaust Temperature (°F): 74
Discharge Style: Vertical, Obstructed

Authority for Requirement: DNR Construction Permit 94-A-534-S3

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)"b"
<table>
<thead>
<tr>
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<th>Yes</th>
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</tr>
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<tbody>
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</tr>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan Required?</td>
<td></td>
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</tr>
<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-31**

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-31.1  
Emissions Control Equipment ID Number: CE-31  
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-31.1  
Emission Unit Description: Spent Flake Bins  
Raw Material/Fuel: Soybeans  
Rated Capacity: 118.75 ton/hr

**Applicable Requirements**

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

Pollutant: Opacity  
Emission Limit(s): 20%¹  
Authority for Requirement: DNR Construction Permit 93-A-041-S5  
567 IAC 23.3(2) "d"

Pollutant: Particulate Matter (PM₁₀)  
Emission Limit(s): 0.04 lb/hr  
Authority for Requirement: DNR Construction Permit 93-A-041-S5

Pollutant: Particulate Matter (PM) - State  
Emission Limit(s): 0.04 lb/hr; 0.10gr/dscf  
Authority for Requirement: DNR Construction Permit 93-A-041-S5  
567 IAC 23.4(7)

¹ If visible emissions are observed, the owner/operator shall 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).

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

**Operating Limits**

Operating limits for this emission unit shall be:

A. The owner or operator shall operate and maintain the control equipment according to manufacturer’s specifications and instructions.

B. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.
**Reporting and Recordkeeping**

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

A. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the control equipment.

B. The owner or operator shall maintain the following daily records:

i. The amount, in bushels, of grain processed at the facility.

ii. The 365-day rolling average for the amount of grain processed at the facility, in bushels per day.

Authority for Requirement: DNR Construction Permit 93-A-041-S5

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 101
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 1,000
Exhaust Temperature (°F): 70
Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 93-A-041-S5

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

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

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)"b"
<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>
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</tr>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan Required?</td>
<td></td>
<td>□</td>
</tr>
<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-32

Associated Equipment

Associated Emission Unit ID Numbers: EU-32.1
Emissions Control Equipment ID Number: CE-32
Emissions Control Equipment Description: Mineral Oil Absorber

Emission Unit vented through this Emission Point: EU-32.1
Emission Unit Description: Vegetable Oil Processing Solvent Emissions
Raw Material/Fuel: Soybeans
Rated Capacity: 118.75 ton/hr

Applicable Requirements

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

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.17 gal/ton \(^{(1)}\); 453 tons/yr
Authority for Requirement: DNR Construction Permit 97-A-327-S5

\(^{(1)}\)The February 27, 2006 US EPA Consent Decree established a limit for the VOC losses from soybean extraction processes. The permittee requested the permit limit of 0.17 gallons of solvent loss per ton of soybean processed for the Iowa Falls facility.

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

Operating Limits

Operating limits for this emission unit shall be:

A. The extractant solvent usage shall not exceed 160,354 gallons per twelve-month rolling total.

B. VOC content of the extractant solvent shall not exceed 5.65 lbs/gallon.

C. On the extractant solvent tank, the closed vent system shall be designed to collect all VOC vapors, reduce inlet vapors by 95% or greater, and be operated with no detectable emissions, as defined in 40 CFR 60.112b(a)(3).

D. The control system shall be operated and parameters monitored in accordance with the latest version of the operating plan that has been submitted and approved by the DNR.

E. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.
Reporting and Recordkeeping

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

A. Plant-wide total extractant solvent usage in gallons per twelve-month rolling total.

B. Calculate and record the monthly and rolled 12-month totals of gallons of solvent lost per ton of beans processed. This 12-month total rolled monthly value shall be used to verify compliance with the permit limit of 0.17 gallons of solvent per ton of soybeans processed found in Permit Condition 10.

C. Maintain MSDS sheets of the extractant solvent used in the extraction process.

D. The owner or operator shall keep records showing the dimension of the storage vessel, an analysis showing the capacity of the storage vessel, and a copy of the operating plan, for the lifetime of the storage tank.

E. A copy of the documentation submitted to demonstrate compliance with the control device's required control efficiency (as required in 40 CFR 60.113b(c)) shall be kept.

F. Parameter monitoring records as required by 40 CFR 60.115b(c).

G. The owner or operator shall maintain the following daily records:
   i. The amount, in bushels, of grain processed at the facility.
   ii. The 365-day rolling average for the amount of grain processed at the facility, in bushels per day.

Authority for Requirement: DNR Construction Permit 97-A-327-S5

Consent Decree

These emission units are subject to VOC requirements as required by the Consent Decree. Please see the "Plant-Wide Conditions" section and Appendix K of this permit for specific Consent Decree language regarding these emission units.

Authority for Requirement: Civil Action Number 05-2037JMR/FLN 567 IAC 22.108(1)

NSPS and NESHAP Applicability

This process is also subject to Subpart A (General Provisions, 40 CFR §60.1 – 40 CFR §60.19) and Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Storage Vessels), 40 CFR §60.110b – 40 CFR §60.117b) of the New Source Performance Standards (NSPS).

The Soybean Extraction Process is subject to Subpart A (General Provisions, 40 CFR §63.1 – 40 CFR §63.15) and Subpart GGGG (Solvent Extraction for Vegetable Oil Production, 40 CFR
§63.2830 – 40 CFR §63.2872) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).
Authority for Requirement:  DNR Construction Permit 97-A-327-S5

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

Stack Height, (ft, from the ground): 90
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 125
Exhaust Temperature (°F): 100
Discharge Style: Downward

Authority for Requirement:  DNR Construction Permit 97-A-327-S5

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**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-34

Associated Equipment

Associated Emission Unit ID Numbers: EU-34.1, EU-34.2, EU-34.3, EU-34.4, EU-34.5, EU-34.6

Emissions Control Equipment ID Number:  CE-34

Emissions Control Equipment Description:  Flue Gas Recirculation

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<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-34</td>
<td>EU-34.1</td>
<td></td>
<td>Natural Gas</td>
<td>78 MMBtu/hr</td>
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<tr>
<td></td>
<td>EU-34.2</td>
<td></td>
<td>#2 Fuel Oil</td>
<td>0.538 Kgal/hr</td>
</tr>
<tr>
<td></td>
<td>EU-34.3</td>
<td></td>
<td>Vegetable Oil</td>
<td>0.582 Kgal/hr</td>
</tr>
<tr>
<td></td>
<td>EU-34.4</td>
<td></td>
<td>Animal Fats</td>
<td>75.3 MMBtu/hr</td>
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<tr>
<td></td>
<td>EU-34.5</td>
<td></td>
<td>Biodiesel Heavies &amp; Distillates</td>
<td>0.582 Kgal/hr</td>
</tr>
<tr>
<td></td>
<td>EU-34.6</td>
<td></td>
<td>Biodiesel</td>
<td>0.582 Kgal/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):  20%  
Authority for Requirement: DNR Construction Permit 98-A-389-S3
40 CFR 60 Subpart Dc

(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):  3.29 lb/hr
Authority for Requirement: DNR Construction Permit 98-A-389-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s):  0.6 lb/MMBtu; 3.29 lb/hr
Authority for Requirement: DNR Construction Permit 98-A-389-S3
567 IAC 23.3(2) "b"

Pollutant: Sulfur Dioxide (SO$_2$)

Emission Limit(s):  2.5 lb/MMbtu; 18.7 lb/hr  
Authority for Requirement: DNR Construction Permit 98-A-389-S3
567 IAC 23.3(3) "b"

(2) Limit is for fuel oil

Pollutant: Nitrogen Oxides (NO$_X$)

Emission Limit(s):  4.2 lb/hr  ; 10.7 lb/hr  ; 15.2 lb/hr  ; 39.4 tons/yr
Authority for Requirement: DNR Construction Permit 98-A-389-S3

(3) Limit is for natural gas
(4) Limit is for fuel oil
(5) Limit is for vegetable oil and animal fats (tallow)
**Operational Limits & Requirements**

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

**Operating Limits**

A. This emission unit shall be limited to using any of the following fuels (or any combination of these fuels): #2 fuel oil; natural gas; vegetable oil; animal fats (tallow); biodiesel; biodiesel heavies; and/or distillates.

B. The Sulfur content of the #2 Fuel Oil used in this boiler shall not exceed 0.25%, by weight.

C. The Sulfur content of the Vegetable Oil used in this boiler shall not exceed 0.15%, by weight.

D. The Crush Plant Boilers (EP 26, EP 34 & EP 34.2) shall not use more than 3,000,000 gallons of #2 fuel oil, vegetable oil, animal fats (tallow), biodiesel, biodiesel heavies and/or distillates as fuel per twelve-month rolling period.

E. The Nebraska Boiler (EP 34 and EP 34.2) shall not use more than 2,000,000 gallons of #2 fuel oil, vegetable oil, animal fats (tallow), biodiesel, biodiesel heavies and/or distillates as fuel per twelve-month rolling period.

F. The flue gas recirculation control system shall be in operation at all times the boiler is operating except during start-up, shutdown or malfunction.

**Reporting and Recordkeeping**

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

A. The owner or operator shall keep records of the Sulfur content of the #2 fuel oil and vegetable oil combusted in this boiler. This may be done by testing or vendor certification.

B. The owner or operator shall record the total amount of #2 fuel oil, vegetable oil, animal fats (tallow), biodiesel, biodiesel heavies and/or distillates combusted at the Crush Plant Boilers (EP 26, EP 34 & EP 34.2) using a twelve-month rolling total.

C. The owner or operator shall record the total amount of #2 fuel oil, vegetable oil, animal fats (tallow), biodiesel, biodiesel heavies and/or distillates combusted at the Nebraska Boiler (EP 34 and EP 34.2) using a twelve-month rolling total.

D. The owner or operator shall keep records of the amount and type of fuel combusted in this boiler per day as required by NSPS Subpart Dc, 40 CFR 60.48 c (f).

Authority for Requirement: DNR Construction Permit 98-A-389-S3
NSPS and NESHAP Applicability
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Dc – Standards of Performance for Small Industrial, Commercial, and Institutional Steam Generating Units.

This equipment is affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

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

Stack Height, (ft, from the ground): 46
Stack Opening, (inches, dia.): 42
Exhaust Flow Rate (scfm): 9,600
Exhaust Temperature (°F): 400
Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 98-A-389-S3

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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

The following visible emission monitoring requirement applies only when this emission unit burns backup fuels (#2 fuel oil, vegetable oil, animal fats, biodiesel, biodiesel heavies & distillates):

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)"b"
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-34.2

Associated Equipment

Associated Emission Unit ID Numbers: EU-34.21, EU-34.22, EU-34.23, EU-34.24, EU-34.25, EU-34.26

Emissions Control Equipment ID Number: CE-34

Emissions Control Equipment Description: Flue Gas Recirculation

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<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-34.2</td>
<td>EU-34.21</td>
<td>Nebraska Boiler (Heat Recovery Stack)</td>
<td>Natural Gas</td>
<td>95,000 bu/day</td>
</tr>
<tr>
<td></td>
<td>EU-34.22</td>
<td></td>
<td>#2 Fuel Oil</td>
<td>95,000 bu/day</td>
</tr>
<tr>
<td></td>
<td>EU-34.23</td>
<td></td>
<td>Vegetable Oil</td>
<td>95,000 bu/day</td>
</tr>
<tr>
<td></td>
<td>EU-34.24</td>
<td></td>
<td>Animal Fats</td>
<td>95,000 bu/day</td>
</tr>
<tr>
<td></td>
<td>EU-34.25</td>
<td></td>
<td>Biodiesel Heavies &amp; Distillates</td>
<td>95,000 bu/day</td>
</tr>
<tr>
<td></td>
<td>EU-34.26</td>
<td></td>
<td>Biodiesel</td>
<td>95,000 bu/day</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): 20% (1)

Authority for Requirement: DNR Construction Permit 02-A-387-S1

40 CFR 60 Subpart Dc

(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\textsubscript{10})

Emission Limit(s): 3.29 lb/hr

Authority for Requirement: DNR Construction Permit 02-A-387-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBtu; 3.29 lb/hr

Authority for Requirement: DNR Construction Permit 02-A-387-S1

567 IAC 23.3(2) "b"

Pollutant: Sulfur Dioxide (SO\textsubscript{2})

Emission Limit(s): 2.5 lb/MMbtu; 18.7 lb/hr (2)

Authority for Requirement: DNR Construction Permit 02-A-387-S1

567 IAC 23.3(3) "b"

(2) Limit is for fuel oil
Pollutant: Nitrogen Oxides (NO\textsubscript{x})
Emission Limit(s): 4.2 lb/hr \textsuperscript{(3)}; 10.7 lb/hr \textsuperscript{(4)}; 15.2 lb/hr \textsuperscript{(5)}; 39.4 tons/yr
Authority for Requirement: DNR Construction Permit 02-A-387-S1

\textsuperscript{(3)} Limit is for natural gas  
\textsuperscript{(4)} Limit is for fuel oil  
\textsuperscript{(5)} Limit is for vegetable oil and animal fats (tallow)

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

Operating Limits

A. This emission unit shall be limited to using any of the following fuels (or any combination of these fuels): #2 fuel oil; natural gas; vegetable oil; animal fats (tallow); biodiesel; biodiesel heavies; and/or distillates.

B. The Sulfur content of the #2 fuel oil used in this boiler shall not exceed 0.25%, by weight.

C. The Sulfur content of the vegetable oil used in this boiler shall not exceed 0.15%, by weight.

D. The Crush Plant Boilers (EP 26, EP 34 & EP 34.2) shall not use more than 3,000,000 gallons of #2 fuel oil, vegetable oil, animal fats (tallow), biodiesel, biodiesel heavies and/or distillates as fuel per twelve-month rolling period.

E. The Nebraska Boiler (EP 34 and EP 34.2) shall not use more than 2,000,000 gallons of #2 fuel oil, vegetable oil, animal fats (tallow), biodiesel, biodiesel heavies and/or distillates as fuel per twelve-month rolling period.

F. The flue gas recirculation control system shall be in operation at all times the boiler is operating except during start-up, shutdown or malfunction.

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

A. The owner or operator shall keep records of the Sulfur content of the #2 fuel oil and vegetable oil combusted in this boiler. This may be done by testing or vendor certification.

B. The owner or operator shall record the total amount of #2 fuel oil, vegetable oil, animal fats (tallow), biodiesel, biodiesel heavies and/or distillates combusted at the Crush Plant Boilers (EP 26, EP 34 & EP 34.2) using a twelve-month rolling total.

C. The owner or operator shall record the total amount of #2 fuel oil, vegetable oil, animal fats (tallow), biodiesel, biodiesel heavies and/or distillates combusted at the Nebraska Boiler (EP 34 and EP 34.2) using a twelve-month rolling total.

D. The owner or operator shall keep records of the amount and type of fuel combusted in this boiler per day as required by NSPS Subpart Dc, 40 CFR 60.48 c (f).

Authority for Requirement: DNR Construction Permit 02-A-387-S1
**NSPS and NESHAP Applicability**

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Dc – Standards of Performance for Small Industrial, Commercial, and Institutional Steam Generating Units.

This emission point is subject to NESHAP Subpart A – General Provisions.

This equipment is affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

**Emission Point Characteristics**

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

- **Stack Height**, (ft, from the ground): 46
- **Stack Opening**, (inches, dia.): 36
- **Exhaust Flow Rate** (scfm): 9,700
- **Exhaust Temperature** (°F): 150
- **Discharge Style**: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 02-A-387-S1

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

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

The following visible emission monitoring requirement applies only when this emission unit burns backup fuels (#2 fuel oil, vegetable oil, animal fats, biodiesel, biodiesel heavies & distillates):

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)"b"
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-35

Associated Equipment
Associated Emission Unit ID Numbers: EU-35.1
Emissions Control Equipment ID Number: CE-35.1
Emissions Control Equipment Description: Filter

Emission Unit vented through this Emission Point: EU-35.1
Emission Unit Description: Flow Agent Storage Tank
Raw Material/Fuel: Flow Agent (maximum usage is 100,000 lb/week)
Rated Capacity: 0.2976 tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40%
Authority for Requirement: DNR Construction Permit 01-A-016-S1
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.10 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-016-S1
567 IAC 23.3(2) "a"

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

Stack Height, (ft, from the ground): 31.25
Stack Opening, (inches): 30×30
Exhaust Flow Rate (scfm): 650
Exhaust Temperature (°F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 01-A-016-S1

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.
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-36

Associated Equipment

Associated Emission Unit ID Numbers: EU-36.1
Emissions Control Equipment ID Number: CE-36
Emissions Control Equipment Description: Bagfilter

Emission Unit vented through this Emission Point: EU-36
Emission Unit Description: Meal Storage Tank
Raw Material/Fuel: Soybeans
Rated Capacity: 95,000 bu/day

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: DNR Construction Permit 03-A-779
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): 0.17 lb/hr; 0.75 tons/yr
Authority for Requirement: DNR Construction Permit 03-A-779

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.75 tons/yr; 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-779

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

Stack Height, (ft, from the ground): 105
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 2,000
Exhaust Temperature (°F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 03-A-779

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.
**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-37

Associated Equipment

Emissions Control Equipment ID Number: CE-37
Emissions Control Equipment Description: Bagfilter

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<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-37</td>
<td>EU-37.1</td>
<td>Soybean CoProduct Receiving</td>
<td>Soybeans</td>
<td>117.6 tons/hr (1 1/3 railcars/hr)</td>
</tr>
<tr>
<td></td>
<td>EU-37.2</td>
<td>Soybean CoProduct Storage</td>
<td>Soybean CoProduct (received and produced)</td>
<td>Rec: 117.6 tons/hr (1 1/3 railcars/hr); Prod: 5 tons/hr</td>
</tr>
<tr>
<td></td>
<td>EU-37.3</td>
<td>Soybean CoProduct Handling</td>
<td></td>
<td>Rec: 117.6 tons/hr (1 1/3 railcars/hr); Prod: 5 tons/hr</td>
</tr>
</tbody>
</table>

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 04-A-062-S3
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): 0.34 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-062-S3

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 0.34 lb/hr; 0.1 gr/dsf
Authority for Requirement: DNR Construction Permit 04-A-062-S3
567 IAC 23.4(7)
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits
Operating limits for this emission unit shall be:

A. The owner or operator shall operate and maintain the control equipment according to manufacturer’s specifications and instructions.

B. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.

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

A. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the control equipment.

B. The owner or operator shall maintain the following daily records:
   i. The amount, in bushels, of grain processed at the facility.
   ii. The 365-day rolling average for the amount of grain processed at the facility, in bushels per day.

Authority for Requirement: DNR Construction Permit 04-A-062-S3

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

Stack Height, (ft, from the ground): 125
Stack Opening, (inches, dia.): 18
Exhaust Flow Rate (scfm): 4,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 04-A-062-S3

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.
**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-38**

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-38  
Emissions Control Equipment ID Number: CE-38  
Emissions Control Equipment Description: Cyclone

Emission Unit vented through this Emission Point: EU-38  
Emission Unit Description: Pellet Cooler  
Raw Material/Fuel: Soybeans  
Rated Capacity: 10 tons/hr

**Applicable Requirements**

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

Pollutant: Opacity  
Emission Limit(s): 40% (1)  
Authority for Requirement: DNR Construction Permit 04-A-701  
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 (PM₁₀)  
Emission Limit(s): 0.47 lb/hr  
Authority for Requirement: DNR Construction Permit 04-A-701

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.10 gr/dscf; 0.47 lb/hr  
Authority for Requirement: DNR Construction Permit 04-A-701  
567 IAC 23.4(7)
Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 30
- Stack Opening, (inches, dia.): 30
- Exhaust Flow Rate (scfm): 5,500
- Exhaust Temperature (°F): Ambient
- Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 04-A-701

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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-39

Associated Equipment

Associated Emission Unit ID Numbers: EU-39.1, EU-39.2
Emissions Control Equipment ID Number: CE-39
Emissions Control Equipment Description: Bagfilter

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-39</td>
<td>EU-39.1</td>
<td>Meal L/O Aspiration</td>
<td>Soybeans Hulls/Meal/ Pellets</td>
<td>250 tons/hr</td>
</tr>
<tr>
<td></td>
<td>EU-39.2</td>
<td>Meal Feed Transfer</td>
<td></td>
<td>250 tons/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 04-A-702
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): 1.785 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-702

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.10 gr/dscf; 1.785 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-702
567 IAC 23.4(7)
Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): Indoor Venting
Stack Opening, (inches, dia.): Indoor Venting
Exhaust Flow Rate (scfm): 29,750
Exhaust Temperature (°F): Ambient
Discharge Style: Indoor Venting

Authority for Requirement: DNR Construction Permit 04-A-702

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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-40

Associated Equipment

Associated Emission Unit ID Numbers: EU-40.1, EU-40.2, EU-40.3, EU-40.4

Emissions Control Equipment ID Number: None

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<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-40</td>
<td>EU-40.1</td>
<td>Biodiesel Boiler</td>
<td>Natural Gas</td>
<td>0.0325 MMCF/hr</td>
</tr>
<tr>
<td></td>
<td>EU-40.2</td>
<td>Fuel Oil</td>
<td></td>
<td>0.232 Kgal/hr</td>
</tr>
<tr>
<td></td>
<td>EU-40.3</td>
<td>Vegetable Oil</td>
<td></td>
<td>0.251 Kgal/hr</td>
</tr>
<tr>
<td></td>
<td>EU-40.4</td>
<td>Biodiesel</td>
<td></td>
<td>0.251 Kgal/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.

Emission Limits for Natural Gas Combustion

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 05-A-531-S2
567 IAC 23.3(2) "d"

(1) Visible emissions, other than those observed during startup, shutdown, or malfunction, 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): 1.51 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-531-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.03 lb/MMBtu
Authority for Requirement: DNR Construction Permit 05-A-531-S2
40 CFR 60 Subpart Dc

Pollutant: Sulfur Dioxide (SO2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 05-A-531-S2
567 IAC 23.3(3) "e"

Pollutant: Nitrogen Oxides (NOx)
Emission Limit(s): 100.00 lb/MMcf
Authority for Requirement: DNR Construction Permit 05-A-531-S2
Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 400 ppm
Authority for Requirement: DNR Construction Permit 05-A-531-S2

Pollutant: Hydrochloric Acid (HCl)
Emission Limit(s): 0.0005 lb/MMBtu
Authority for Requirement: DNR Construction Permit 05-A-531-S2

**Emission Limits for Fuel Oil Combustion**

Pollutant: Opacity
Emission Limit(s): 20% (2)
Authority for Requirement: DNR Construction Permit 05-A-531-S2
40 CFR 60 Subpart Dc

(2) Visible emissions, other than those observed during startup, shutdown, or malfunction, 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): 1.21 lb/hr for
Authority for Requirement: DNR Construction Permit 05-A-531-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.024 lb/MMBtu
Authority for Requirement: DNR Construction Permit 05-A-531-S2

Pollutant: Sulfur Dioxide (SO\(_2\))
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: DNR Construction Permit 05-A-531-S2
567 IAC 23.3(3) "b"

Pollutant: Nitrogen Oxides (NO\(_x\))
Emission Limit(s): 0.143 lb/MMBtu
Authority for Requirement: DNR Construction Permit 05-A-531-S2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 400 ppm
Authority for Requirement: DNR Construction Permit 05-A-531-S2

Pollutant: Hydrochloric Acid (HCl)
Emission Limit(s): 0.0005 lb/MMBtu
Authority for Requirement: DNR Construction Permit 05-A-531-S2

**Emission Limits for Vegetable Oil and Biodiesel Combustion**

Pollutant: Opacity
Emission Limit(s): 40% (3)
Authority for Requirement: DNR Construction Permit 05-A-531-S2
567 IAC 23.3(2) "d"

(3) Visible emissions, other than those observed during startup, shutdown, or malfunction, 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): 1.00 lb/hr for
Authority for Requirement: DNR Construction Permit 05-A-531-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.02 lb/MMBtu
Authority for Requirement: DNR Construction Permit 05-A-531-S2

Pollutant: Sulfur Dioxide (SO$_2$)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: DNR Construction Permit 05-A-531-S2
567 IAC 23.3(3) "b"

Pollutant: Nitrogen Oxides (NO$_x$)
Emission Limit(s): 0.20 lb/MMBtu
Authority for Requirement: DNR Construction Permit 05-A-531-S2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 400 ppm
Authority for Requirement: DNR Construction Permit 05-A-531-S2

Pollutant: Hydrochloric Acid (HCl)
Emission Limit(s): 0.0005 lb/MMBtu
Authority for Requirement: DNR Construction Permit 05-A-531-S2

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

Operating Limits
A. This facility shall not consume more than 2,200,000 gallons of liquid fuel (fuel oil #2, vegetable oil, and biodiesel) per rolling twelve-month period in the boiler (EU 40).
B. The facility shall only combust natural gas, diesel fuel oil #2, vegetable oil, or biodiesel fuel in the boiler EU40.
C. The maximum sulfur content of the diesel fuel oil #2, vegetable oil, or biodiesel fuel combusted in the boiler EU 40 shall not exceed 0.25 % (by weight).
D. The facility must operate and maintain the boiler EU 40 according to the provisions in 40 CFR 63.6(e).
E. The facility must develop and implement a written startup, shutdown, and malfunction plan (SSMP) for the boiler EU 40 according to the provisions in 40 CFR 63.6(e).
F. All applicable subsequent performance testing and fuel analysis shall be conducted according to the schedule in 40 CFR 63.7515.

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

A. The owner or operator shall record and maintain records of the amount and type of fuel combusted in this boiler (EU 40) per day as required by NSPS Subpart Dc, 40 CFR 60.48c(g).
B. The owner or operator shall record the amount of liquid fuel (fuel oil #2, vegetable oil, and biodiesel) combusted in the boiler (EU 40) each month. Calculate a rolling twelve-month total.

C. The facility shall record the sulfur content of any diesel fuel oil #2, vegetable oil, or biodiesel fuel combusted in the boiler EU 40. This may be done by testing, by fuel oil vendor certification, or another method approved by the Department.

D. The facility shall submit a copy of all excess emission reports required for Subpart Dc according to 40 CFR 60.48c(c). It should be noted that per permit Condition 7 the facility is also required to orally notify the DNR field office of excess emissions within 8 hours and submit a written report within 7 days.

E. As applicable, the facility shall demonstrate continuous compliance, keep records and submit reports according to 40 CFR 63.7555 and Table 8 to subpart DDDDD of Part 63.

F. The facility shall keep all of the applicable records required by and according to 40 CFR 60.48c and 40 CFR 63.7555.

Authority for Requirement: DNR Construction Permit 05-A-531-S2

**NSPS and NESHAP Applicability**

This emission point is subject NSPS Subpart A– General as specified in §60.1~ 60.19 and Subpart Dc – Standards of Performance for Small Industrial, Commercial and Institutional Steam Generating Units as specified in §60.40c.

This equipment is affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 35
Stack Opening, (inches, dia.): 28
Exhaust Flow Rate (acfm): 11,500
Exhaust Temperature (°F): 320
Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-531-S2

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.
**Monitoring Requirements**

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

The following visible emission monitoring requirement applies only when this emission unit burns backup fuels (#2 fuel oil, vegetable oil, animal fats, biodiesel, biodiesel heavies & distillates):

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Agency Approved Operation & Maintenance Plan Required?**

Yes [ ] No [x]

**Facility Maintained Operation & Maintenance Plan Required?**

Yes [ ] No [x]

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes [ ] No [x]

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-41

Associated Equipment

Associated Emission Unit ID Numbers: EU-41.1, EU-41.2
Emissions Control Equipment ID Number: CE-41, CE-41.2
Emissions Control Equipment Description: Flare, Scrubber

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<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-41</td>
<td>EU-41.1</td>
<td>Biodiesel Process</td>
<td>Biodiesel</td>
<td>90 MMgal/yr</td>
</tr>
<tr>
<td></td>
<td>EU-41.2</td>
<td>Flare Natural Gas Combustion</td>
<td>Natural Gas</td>
<td>0.075 MMCF/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): No Visible Emissions \(^{(1)}\)

Authority for Requirement: DNR Construction Permit 05-A-532-S2

40 CFR §63.11(b) 4

\(^{(1)}\)Flares shall be designed for and operated with no visible emissions for periods not to exceed a total of 5 minutes during any 2 consecutive hours. Test Method 22 in appendix A of part 60 or chapter 40 shall be used to determine the compliance of the flare with the visible emissions provisions of this part. The observations period is 2 hours and shall be used according to Method 22.

**Pollutant:** Particulate Matter (PM\(_{2.5}\))

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-532-S2

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

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-532-S2

**Pollutant:** Particulate Matter (PM)

Emission Limit(s): 0.01 lb/hr; 0.10 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-532-S2

567 IAC 23.3(2) "a"

**Pollutant:** Sulfur Dioxide (SO\(_2\))

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-532-S2

567 IAC 23.3(3) "e"

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

Emission Limit(s): 1.37 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-532-S2
Pollutant: Total HAP – Methanol
Emission Limit(s): 1.37 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-532-S2

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

**Operating Limits**

A. The facility shall meet all the applicable requirements of Subpart FFFF-Miscellaneous Organic Chemical Manufacturing, including those not specifically mentioned in section for emphasis.

B. The facility shall produce a maximum of 60 million gallons of biodiesel per rolling 12-month period.

C. As specified in 40 CFR §63.2455, the facility must meet each emission limit in Table 1 of Subpart FFFF that applies to this process.

D. For the closed vent system and flare, the facility must meet the requirements of §63.982(b), from 40 CFR part 63, subpart SS, and the requirements referenced therein. This includes the requirements in §63.983 for closed vent systems; §63.987 for flares; §63.997(a), (b), and (c) for provisions regarding flare compliance assessments; the monitoring, recordkeeping, and reporting referenced therein, and the applicable recordkeeping and reporting requirements of §63.998 and §63.999. No other parts of subpart SS apply to emissions vented through a closed system to a flare.

E. The flare (CE 41.1) and scrubber (CE 41.2) shall be operated at all times when emissions are vented to them.

F. The auxiliary fuel combusted in the flare (CE 41.1) shall only combust natural gas or propane.

G. The flare shall be operated with the flare flame or at least one pilot flame present at all times. The presence of the flare or pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame at all times.

H. The facility shall comply with all applicable requirements for each transfer rack associated with the Biodiesel Process EU 41, according to the provisions in 40 CFR 63.2475.

I. For equipment leaks, as specified in 63.2480, the facility must comply with the requirements of 40 CFR Part 63, Subpart UU and the requirements referenced therein, or comply with the requirements of 40 CFR Part 63, Subpart F.

J. The facility shall comply with all applicable requirements for each wastewater stream and liquid stream in open systems associated with the Biodiesel Process EU 41, according to the provisions in 40 CFR 63.2485.

K. The facility shall comply with all applicable requirements for each heat exchange system associated with the Biodiesel Process EU 41, according to the provisions in 40 CFR 63.2490.

L. The facility must develop and implement a written startup, shutdown, and malfunction plan (SSMP) for the Biodiesel Process EU 41, according to the provisions in 40 CFR 63.6(e).
Reporting and Recordkeeping
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The facility shall meet all the applicable requirements of Subpart FFFF-Miscellaneous Organic Chemical Manufacturing, including those not specifically mentioned in section for emphasis.

B. Record on a monthly basis, the amount of biodiesel produced from the Biodiesel Process EU 41 in gallons. Calculate and record rolling 12-month totals.

C. The facility shall conduct an initial flare compliance assessment of the flare (CE 41.1) as specified in 40 CFR §63.987. Flare compliance records shall be kept as specified in 40 CFR §63.988(a)(1) and a flare compliance assessment report shall be submitted as specified in 40 CFR §63.999(a)(2).

D. The facility shall keep up to date and readily assessable hourly records of whether the monitor is continuously operating and whether the flare flame or at least one pilot flame is continuously present. The facility shall keep records of the times and duration of all periods during which the flare flame or all the pilot flames are absent, and of the times and duration of all periods during which the monitor is not operating. Flare flame monitoring and compliance records shall be kept as specified in 40 CFR §63.998 and reported as specified in 40 CFR §63.999.

E. The facility must keep all applicable records as specified in 40 CFR §63.2525.

Authority for Requirement: DNR Construction Permit 05-A-532-S2

NSPS and NESHAP Applicability
This process is subject to the following National New Source Performance Standards (NSPS):

- 40 CFR Part 60 Subpart A- General Provisions, as specified in §60.1 – §60.19;
- 40 CFR Part 60 Subpart Kb-Standards of Performance for Volatile Organic Liquid Storage Vessel, as specified in §60.110b;
- 40 CFR Part 60 Subpart VV-Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Manufacturing Industry, as specified in §60.480;
- 40 CFR Part 60 Subpart NNN-Standards of Performance for Volatile Organic Compound (VOC)Emissions from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations, as specified in §60.660; and

This process is subject to National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63 Subpart FFFF-Miscellaneous Organic Chemical Manufacturing, as specified in §63.2435.

Authority for Requirement: DNR Construction Permit 05-A-532-S2
**Emission Point Characteristics**  
*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 60
- Stack Opening, (inches, dia.): 18
- Exhaust Flow Rate (scfm): 400
- Exhaust Temperature (°F): 1,600
- Discharge Style: Vertical, Unobstructed
- Authority for Requirement: DNR Construction Permit 05-A-532-S2

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**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-42

Associated Equipment

Associated Emission Unit ID Numbers: EU-42.1
Emissions Control Equipment ID Number: None

Emission Unit vented through this Emission Point: EU-42.1
Emission Unit Description: Glycerin Process
Raw Material/Fuel: Glycerin
Rated Capacity: 10 MMGal/yr

Applicable Requirements

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

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

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

**Pollutant:** Volatile Organic Compounds (VOC)
**Emission Limit(s):** 0.10 lb/hr
**Authority for Requirement:** DNR Construction Permit 05-A-533-S1

**Pollutant:** Single HAP (Methanol)
**Emission Limit(s):** 0.10 lb/hr
**Authority for Requirement:** DNR Construction Permit 05-A-533-S1

**Pollutant:** Total HAP
**Emission Limit(s):** 0.10 lb/hr
**Authority for Requirement:** DNR Construction Permit 05-A-533-S1

Operational Limits & Requirements

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

Operating Limits

A. The facility shall meet all the applicable requirements of Subpart FFFF-Miscellaneous Organic Chemical Manufacturing, including those not specifically mentioned in section for emphasis.

B. The Glycerin Process EU 42 shall produce a maximum of 10 million gallons of glycerin per rolling 12-month period.

C. For equipment leaks, as specified in §63.2480, the facility must comply with the requirements of 40 CFR part 63, Subpart UU and the requirements referenced therein, or comply with the requirements of 40 CFR part 63, Subpart F.

D. The facility shall comply with all applicable requirements for each wastewater stream and liquid stream in open systems associated with the Glycerin Process EU 42, according to the provisions in 40 CFR 63.2485.

E. The facility shall comply with all applicable requirements for each heat exchange system associated with the Glycerin Process EU 42, according to the provisions in 40 CFR 63.2490.
**Reporting and Recordkeeping**

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

A. Record on a monthly basis, the amount of glycerin produced from the Glycerin Process Line EU 42 in gallons. Calculate and record rolling 12-month totals.

B. The facility must keep all applicable records as specified in 40 CFR §63.2525.

Authority for Requirement:  DNR Construction Permit 05-A-533-S1

**NSPS and NESHAP Applicability**


This emission unit is subject the National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63 Subpart A-General Provisions as specified in 40 CFR Part 63 Subpart FFFF-Miscellaneous Organic Chemical Manufacturing §63.2540 (Table 12) and 40 CFR Part 63 Subpart FFFF-Miscellaneous Organic Chemical Manufacturing as specified in §63.2435. The facility is subject to Subpart FFFF-Miscellaneous Organic Chemical Manufacturing as an affected new source as specified in §63.2440(c).

Authority for Requirement:  DNR Construction Permit 05-A-533-S1

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 40
Stack Opening, (inches, dia.): 3
Exhaust Flow Rate (scfm): 11-25
Exhaust Temperature (°F): 120
Discharge Style: Horizontal

Authority for Requirement:  DNR Construction Permit 05-A-533-S1

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.
**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-45

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-45, EU-45.1
Emissions Control Equipment ID Number: 45-A, 45-B, 45-C, No control for EU 45.1
Emission Control Equipment Description: 3 Cyclones in parallel

Emission Unit vented through this Emission Point: EU-45, EU-45.1
Emission Unit Description: Soypass Dryer, Soypass Toaster
Raw Material/Fuel: Soybean Meal
Rated Capacity: 20 tons/hr

**Applicable Requirements**

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

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

Pollutant: Opacity
Emission Limit(s): 40%¹
Authority for Requirement: 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 2.5 (PM_{2.5})
Emission Limit(s): 1.89 lb/hr
Authority for Requirement: DNR Construction Permit 12-A-532

Pollutant: Particulate Matter 10 (PM_{10})
Emission Limit(s): 2.83 lb/hr
Authority for Requirement: DNR Construction Permit 12-A-532

Pollutant: Particulate Matter (PM)
Emission Limit(s): 2.83 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 12-A-532
567 IAC 23.4(7)

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 40
Stack Opening, (inches, dia.): 20
Exhaust Flow Rate (scfm): 22000
Exhaust Temperature (°F): 120
Discharge Style: Unobstructed Vertical
Authority for Requirement: DNR Construction Permit 12-A-532

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 any of the emission
point design characteristics are different than the values stated above, the owner/operator must notify
the Department and obtain a permit amendment, if required.

**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-F1

Permitted under EP-41

Associated Equipment

Associated Emission Unit ID Numbers: EU-F1

Emissions Control Equipment ID Number: None

Emission Unit vented through this Emission Point: EU-F1

Emission Unit Description: Equipment Leaks

Raw Material/Fuel: Biodiesel

Rated Capacity: N/A

Applicable Requirements

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

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

No applicable emission limits for this emission unit at this time.

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

This emission point is subject to the following NESHAP Subparts:

40 CFR Part 63 Subpart FFFF-Miscellaneous Organic Chemical Manufacturing as specified in §63.2540, §63.2435 and §63.2440(c).

Authority for Requirement: 40 CFR 63 Subparts A and FFFF

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-F2

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-F2  
Emissions Control Equipment ID Number: None  

_________________  
Emission Unit vented through this Emission Point: EU-F2  
Emission Unit Description: Product Loadout  
Raw Material/Fuel: Biodiesel  
Rated Capacity: 90 MMgal/yr

**Applicable Requirements**

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

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

No applicable emission limits for this emission unit at this time.

Authority for Requirement: DNR Construction Permit 06-A-762-S1

**Operational Limits & Requirements**

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

**Operating Limits**

A. The facility shall produce a maximum of 90 million gallons of biodiesel per rolling 12-month period.

B. The facility shall meet all the applicable requirements of Subpart FFFF-Miscellaneous Organic Chemical Manufacturing.

C. For equipment leaks, as specified in 63.2480, the facility must comply with the requirements of 40 CFR Part 63, Subpart UU and the requirements referenced therein, or comply with the requirements of 40 CFR Part 63, Subpart F.

D. The facility shall comply with all applicable requirements for each transfer rack associated with the Biodiesel Process EU 41, according to the provisions in 40 CFR 63.2475.

E. The facility shall use trucks and railcars that only transport either biodiesel or diesel fuel for the loadout of the biodiesel product.

**Reporting and Recordkeeping**

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

A. Record on a monthly basis, the amount of biodiesel produced from the Biodiesel Process EU 41 in gallons. Calculate and record rolling 12-month totals.

B. The permittee must keep all applicable records required by Subpart FFFF-Miscellaneous Organic Chemical Manufacturing, as specified in 40 CFR §63.2525.

C. The facility shall maintain verification that the trucks and railcars that are used for the biodiesel loadout process are dedicated to biodiesel and/or diesel transportation.

Authority for Requirement: DNR Construction Permit 06-A-762-S1
NSPS and NESHAP Applicability

This facility is subject to the following National New Source Performance Standards (NSPS):

- 40 CFR Part 60 Subpart A- General Provisions, as specified in §60.1 – §60.19;
- 40 CFR Part 60 Subpart Kb-Standards of Performance for Volatile Organic Liquid Storage Vessel, as specified in §60.110b;
- 40 CFR Part 60 Subpart VV-Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Manufacturing Industry, as specified in §60.480;
- 40 CFR Part 60 Subpart NNN-Standards of Performance for Volatile Organic Compound (VOC)Emissions from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations, as specified in §60.660; and

This process is subject to National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63 Subpart FFFF-Miscellaneous Organic Chemical Manufacturing, as specified in §63.2435.

Authority for Requirement: DNR Construction Permit 06-A-762-S1

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-F3

Associated Equipment

Associated Emission Unit ID Numbers: EU-F3
Emissions Control Equipment ID Number: None

Emission Unit vented through this Emission Point: EU-F3
Emission Unit Description: Haul Road Fugitive
Raw Material/Fuel: None
Rated Capacity: 10 miles/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:** Particulate Matter (PM$_{2.5}$)
  - **Emission Limit(s):** 2.00 tons/yr
  - **Authority for Requirement:** DNR Construction Permit 06-A-763-S1

- **Pollutant:** Particulate Matter (PM$_{10}$)
  - **Emission Limit(s):** 4.00 tons/yr
  - **Authority for Requirement:** DNR Construction Permit 06-A-763-S1

- **Pollutant:** Particulate Matter (PM)
  - **Emission Limit(s):** 10.00 tons/yr
  - **Authority for Requirement:** DNR Construction Permit 06-A-763-S1

**Operational Limits & Requirements**

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

**Operating Limits**

A. All haul roads at the biodiesel plant shall be paved.

B. Truck traffic on the biodiesel haul roads shall not exceed 10 mph. The speed limit shall be posted along the haul roads.

C. Cleaning of the haul roads shall be done at least once per week, weather permitting. All sweeping must be completed using an enclosed street sweeper.

**Reporting and Recordkeeping**

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

A. The owner/operator shall record the frequency and type of cleaning performed on the haul roads at the biodiesel plant. If the roads are not cleaned due to weather, a written record must be kept on site outlining the conditions.

B. The facility shall maintain a log for the biodiesel haul roads that show the following:
   1. The vehicle miles traveled (VMT) for that month;
   2. The date of any silt load testing performed;
3. The silt content of the road for that month;
4. Monthly PM, PM$_{10}$, and PM$_{2.5}$ emissions;
5. Twelve-month rolling totals for PM, PM$_{10}$, and PM$_{2.5}$ emissions.

C. The owner/operator shall record the number of trucks that load/unload material on a monthly basis. Based on the number of trucks the total Vehicle Miles Traveled (VMT) shall be calculated for that month.

D. If the vehicle miles traveled VMT for any month is equal to or greater than 300 VMT, the facility must perform a silt load test on the haul roads used for the biodiesel plant. For each performance test, silt loading sampling shall be done for at least 3 different locations. Performance testing shall be completed as soon as possible and prior to any cleaning the facility performs on the haul roads. The results of the performance test shall be recorded and used for that month’s silt load value. If the vehicle miles traveled (VMT) for any month is less than 300 VMT, the facility may assume a silt load value of 8 g/m$^2$ for that month.

E. The owner or operator shall calculate and record the monthly haul road emissions (PM and PM$_{10}$) according to the equation (2) from AP-42 Section 13.2.1.3:

\[
Lbs/\text{VMT} = \left[ k \left( \frac{SL}{2} \right)^{0.65} \left( \frac{W}{3} \right)^{1.5} - C \right] \left( 1 - \frac{P}{4N} \right)
\]

F. The facility shall update monthly the twelve-month rolling total of PM, PM$_{10}$, and PM$_{2.5}$ emissions by adding up the calculated monthly emissions for the previous twelve months. The plant shall notify DNR immediately if the twelve-month rolling total exceeds 10.0 tons PM, 4.0 tons of PM$_{10}$, or 2.0 tons of PM$_{2.5}$

Authority for Requirement: DNR Construction Permit 06-A-763-S1

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number:  EP-F4

Associated Equipment

Associated Emission Unit ID Numbers:  EU-F4
Emissions Control Equipment ID Number:  None

Emission Unit vented through this Emission Point:  EU-F4
Emission Unit Description:  Hexane Emission from Biodiesel Process
Raw Material/Fuel:  Hexane
Rated Capacity:  60 MMgal/yr

Applicable Requirements

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

Pollutant:  Volatile Organic Compounds (VOC)
Emission Limit(s):  15.0 tons/yr
Authority for Requirement:  DNR Construction Permit 06-A-764-S1

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

Operating Limits

A.  The facility shall produce a maximum of 90 million gallons of biodiesel per rolling 12-month period.
B.  The facility shall meet all the applicable requirements of Subpart FFFF-Miscellaneous Organic Chemical Manufacturing.
C.  For equipment leaks, as specified in 63.2480, the facility must comply with the requirements of 40 CFR Part 63, Subpart UU and the requirements referenced therein, or comply with the requirements of 40 CFR Part 63, Subpart F.

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

A.  The facility must keep all applicable records required by Subpart FFFF-Miscellaneous Organic Chemical Manufacturing, as specified in 40 CFR §63.2525.
B.  The facility shall keep records of the VOC content of the vegetable oil that is received from outside suppliers for processing in the Biodiesel Process (EU 41). For the purposes of this permit, the VOC content is defined as the concentration of solvent remaining in the oil from the extraction process. Weekly, the facility shall obtain a representative sample of oil from the tank used to store the oil from outside suppliers. The samples collected shall be analyzed for VOC content (ppm by wt.) using a standard or IDNR approved method.
C.  The facility shall keep the following monthly records:
1. The amount of vegetable oil received from outside suppliers that are processed in the Biodiesel Process (EU 41). This shall include crude; semi-refined; and refined, bleached, and deodorized vegetable oils.

2. The rolling 12-month total of the amount of vegetable oil received from outside suppliers that are processed in the Biodiesel Process (EU 41) at this plant. This shall include crude; semi-refined; and refined, bleached, and deodorized vegetable oils.

3. The amount of VOC emitted from the processing of vegetable oils received from outside suppliers in the Biodiesel Process (EU 41) at this plant (tons). This shall be based on the amount of oil received and the analysis of the composite sample of the oil.

4. The rolling 12-month emission rate of VOC from the processing of vegetable oils received from outside suppliers in the Biodiesel Process (EU 41) at this plant (tons).

Authority for Requirement: DNR Construction Permit 06-A-764-S1

**Monitoring Requirements**

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

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

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, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, 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 following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
   a. Form 1.0 "Facility Identification";
   b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
   c. Form 5.0 "Title V annual emissions summary/fee"; and
   d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
   a. Form 1.0 "Facility Identification";
   b. Form 5.0 "Title V annual emissions summary/fee";
   c. Part 3 "Application certification."
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) (emission standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. 567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
   a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
   b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
   c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
   d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));.
   e. The changes comply with all applicable requirements.
   f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
      i. A brief description of the change within the permitted facility,
      ii. The date on which the change will occur,
      iii. Any change in emission as a result of that change,
      iv. The pollutants emitted subject to the emissions trade
      v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
      vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
      vii. Any permit term or condition no longer applicable as a result of the change.

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

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

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

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. 567 IAC 22.108(11)
G18. Duty to Modify a Title V Permit

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

2. Minor Title V Permit Modification.
   a. Minor Title V permit modification procedures may be used only for those permit
      modifications that satisfy all of the following:
      i. Do not violate any applicable requirement;
      ii. Do not involve significant changes to existing monitoring, reporting or
          recordkeeping requirements in the Title V permit;
      iii. Do not require or change a case by case determination of an emission limitation or
          other standard, or an increment analysis;
      iv. Do not seek to establish or change a permit term or condition for which there is no
          corresponding underlying applicable requirement and that the source has assumed in
          order to avoid an applicable requirement to which the source would otherwise be
          subject. Such terms and conditions include any federally enforceable emissions caps
          which the source would assume to avoid classification as a modification under any
          provision under Title I of the Act; and an alternative emissions limit approved
          pursuant to regulations promulgated under section 112(i)(5) of the Act;
      v. Are not modifications under any provision of Title I of the Act; and
      vi. Are not required to be processed as significant modification under rule 567 -
          22.113(455B).
   b. An application for minor permit revision shall be on the minor Title V modification
      application form and shall include at least the following:
      i. A description of the change, the emissions resulting from the change, and any new
          applicable requirements that will apply if the change occurs;
      ii. The permittee's suggested draft permit;
      iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the
          proposed modification meets the criteria for use of minor permit modification
          procedures and a request that such procedures be used; and
iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

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

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

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

G19. Duty to Obtain Construction Permits
Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. 567 IAC 22.1(1)

G20. Asbestos
The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations (567 IAC 23.1(3)"a"); training fires and controlled burning of a demolished building (567 IAC 23.2).

G21. Open Burning
The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. 567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only

G22. Acid Rain (Title IV) Emissions Allowances
The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. “Held” in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators.
The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 22.108(7)

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements
1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
   a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
   b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
   c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
   d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
   a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
   b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
   c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
   d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
   e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
   f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.
5. The permittee shall be allowed to switch from any ozone-depleting substance 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
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(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
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9500

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:
<table>
<thead>
<tr>
<th>Field Office 1</th>
<th>Field Office 2</th>
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</thead>
<tbody>
<tr>
<td>909 West Main – Suite 4</td>
<td>2300-15th St., SW</td>
</tr>
<tr>
<td>Manchester, IA 52057</td>
<td>Mason City, IA 50401</td>
</tr>
<tr>
<td>(563) 927-2640</td>
<td>(641) 424-4073</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Office 3</th>
<th>Field Office 4</th>
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<tbody>
<tr>
<td>1900 N. Grand Ave.</td>
<td>1401 Sunnyside Lane</td>
</tr>
<tr>
<td>Spencer, IA 51301</td>
<td>Atlantic, IA 50022</td>
</tr>
<tr>
<td>(712) 262-4177</td>
<td>(712) 243-1934</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Office 5</th>
<th>Field Office 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>7900 Hickman Road, Suite #200</td>
<td>1023 West Madison Street</td>
</tr>
<tr>
<td>Windsor Heights, IA 50324</td>
<td>Washington, IA 52353-1623</td>
</tr>
<tr>
<td>(515) 725-0268</td>
<td>(319) 653-2135</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Polk County Public Works Dept.</th>
<th>Linn County Public Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Quality Division</td>
<td>Air Quality Branch</td>
</tr>
<tr>
<td>5885 NE 14th St.</td>
<td>501 13th St., NW</td>
</tr>
<tr>
<td>Des Moines, IA 50313</td>
<td>Cedar Rapids, IA 52405</td>
</tr>
<tr>
<td>(515) 286-3351</td>
<td>(319) 892-6000</td>
</tr>
</tbody>
</table>
V. Appendices:

   http://www.ecfr.gov/cgi-bin/text-idx?SID=e9dc9bb1bcf47d2305dbbbb7410df0a2&node=sp40.7.60.a&rgn=div6

B. 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
   http://www.ecfr.gov/cgi-bin/text-idx?SID=e9dc9bb1bcf47d2305dbbbb7410df0a2&node=sp40.7.60.d_0c&rgn=div6

   http://www.ecfr.gov/cgi-bin/text-idx?SID=e9dc9bb1bcf47d2305dbbbb7410df0a2&node=sp40.7.60.k_0b&rgn=div6

D. 40 CFR Part 60 Subpart DD – Standards of Performance for Grain Elevators
   http://www.ecfr.gov/cgi-bin/text-idx?SID=e9dc9bb1bcf47d2305dbbbb7410df0a2&node=sp40.7.60.dd&rgn=div6

   http://www.ecfr.gov/cgi-bin/text-idx?SID=e9dc9bb1bcf47d2305dbbbb7410df0a2&node=sp40.7.60.vv&rgn=div6

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   http://www.ecfr.gov/cgi-bin/text-idx?rgn=div6:node=40%3A14.0.1.1.1.5

L. Consent Decree 05-2037JMR/FLN
UNITED STATES DISTRICT COURT
DISTRICT OF MINNESOTA

UNITED STATES,

Plaintiff,

and the STATES OF ALABAMA, GEORGIA, ILLINOIS, INDIANA, IOWA, MISSOURI, NEBRASKA, NORTH CAROLINA, NORTH DAKOTA, AND OHIO; and the IOWA Counties of LINN and POLK, the OHIO County of MONTGOMERY, and the TENNESSEE County of SHELBY and City of MEMPHIS,

Civil Action Number:

Plaintiff-Intervenors,

v.

CARGILL, INCORPORATED,

Defendant.

CONSENT DECREE
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CONSENT DECREE

WHEREAS, Plaintiff, the United States of America (hereinafter "Plaintiff" or "the United States"), on behalf of the United States Environmental Protection Agency (hereinafter "EPA"), has, simultaneously with lodging of this Consent Decree, filed a Complaint alleging that Cargill, Incorporated (hereinafter "Cargill") commenced construction of a major emitting facility and major modifications of a major emitting facility in violation of the New Source Review ("NSR") requirements at Part C and D of the Clean Air Act (the "Act"), 42 U.S.C. §§ 7470-7492 and 7501-7515, and the regulations promulgated thereunder at 40 C.F.R. Parts 52.21 and 51.165 and State Implementation Plan ("SIP") permitting programs for construction and operation of new and modified stationary sources;

WHEREAS, the United States issued Notices of Violation related to VOC emissions for Cargill’s Lafayette, Indiana oilseeds facility on May 2, 2002, Cargill’s Bloomington, Illinois oilseeds facility on September 9, 2002, and all nine of Cargill’s corn processing facilities on August 12, 2003;

WHEREAS, on September 9, 2003, a Notice of Violation related to VOC emissions was issued to Cargill by the Regional Air Pollution Control Agency for violations associated with its failure to comply with State of Ohio and Montgomery County air pollution control provisions related to permit and emissions control requirements for new sources of air contaminants;

WHEREAS, Notices of Violations related primarily to VOC emissions were issued to Cargill by the state of Nebraska on May 23, 2003, the state of Iowa on August 1, 2003, the Iowa county of Linn on August 1, 2003, and a Notice of Inquiry related primarily to VOC emissions
was issued to Cargill by the Memphis-Shelby County Health Department on September 30, 2003;

WHEREAS, the states of Alabama, Georgia, Illinois, Indiana, Iowa, Missouri, Nebraska, North Carolina, North Dakota, and Ohio; the Iowa counties of Linn and Polk, the Ohio county of Montgomery, and the Tennessee county of Shelby and city of Memphis (hereinafter collectively "Plaintiff-Intervenors"), have filed Complaints in Intervention, joining the claims alleged by the United States;

WHEREAS, Cargill does not admit the violations alleged in the Complaints and the NOVs;

WHEREAS, Cargill has worked cooperatively with the United States and the Plaintiff-Intervenors to structure a comprehensive program that will result in the installation of pollution control equipment and enforceable emission reductions of at least 40,000 tons of allowable air pollution annually from 24 Cargill facilities in 13 states;

WHEREAS, the parties agree that many of the emission reductions under the Consent Decree would not otherwise be required by law;

WHEREAS, the United States, the Plaintiff-Intervenors, and Cargill have agreed that settlement of this action is in the best interest of the parties and in the public interest, will result in air quality improvements, and that entry of this Consent Decree without further litigation is the most appropriate means of resolving this matter; and

WHEREAS, the United States, the Plaintiff-Intervenors, and Cargill consent to entry of this Consent Decree without trial of any issues;
NOW, THEREFORE, without any admission of fact or law, and without any admission of the violations alleged in the Complaints or NOVs, it is hereby ORDERED AND DECREED as follows:

I. JURISDICTION AND VENUE

1. The Complaints state a claim upon which relief can be granted against Cargill under Sections 113 and 167 of the Act, 42 U.S.C. §§ 7413 and 7477, and 28 U.S.C. § 1355. This Court has jurisdiction of the subject matter herein and over the parties consenting hereto pursuant to 28 U.S.C. § 1345 and pursuant to Sections 113 and 167 of the Act, 42 U.S.C. §§ 7413 and 7477. Venue is proper under Section 113(b) of the Act, 42 U.S.C. § 7413(b), and under 28 U.S.C. § 1391(b) and (c).

II. APPLICABILITY

2. The provisions of this Consent Decree shall apply to and be binding upon the United States, the Plaintiff-Intervenors, and upon Cargill as well as Cargill's officers, employees, agents, successors and assigns for the facilities listed in Appendix A to this Consent Decree. In the event Cargill proposes to sell or transfer a facility subject to this Consent Decree before termination of the Consent Decree for that facility, it shall advise such proposed purchaser or successor-in-interest in writing of the existence of this Consent Decree, and shall send a copy of such written notification by certified mail, return receipt requested, to the EPA Regional Administrator for the region in which the facility is located and the Plaintiff-Intervenor with jurisdiction over the facility (the "Appropriate Plaintiff-Intervenor") before such sale or transfer, if possible, but no later than the closing date of such sale or transfer. Cargill shall provide a copy of the Consent Decree to the proposed purchaser or successor-in-interest. In the event Cargill
sells or otherwise assigns any of its right, title, or interest in a facility subject to this Consent
Decree prior to termination of the Consent Decree for that facility, the conveyance shall not
release Cargill from any obligation imposed by this Consent Decree for that facility unless the
party to whom the right, title or interest has been transferred agrees in writing to fulfill the
obligations of this Consent Decree for that facility.

III. FACTUAL BACKGROUND

3. Cargill is a “person” as defined in Section 302(e) of the Act, 42 U.S.C. § 7602(e),
and the federal and state regulations promulgated pursuant to the Act, and is a Delaware
corporation with corporate headquarters in Minnesota.

4. Cargill owns and/or operates the corn processing and oilseed processing facilities
listed in Appendix A.

5. Cargill’s corn processing and oilseeds processing facilities produce a number of
value-added products including vegetable oil, starch, sweeteners, germ, ethanol, and animal feed.
Production of these products results in emissions of regulated air pollutants including nitrogen
oxides (“NOx”), carbon monoxide (“CO”), sulfur dioxide (“SO2”), particulate matter (“PM”),
volatile organic compounds (“VOCs”) and hazardous air pollutants (“HAPs”).

6. Plaintiffs allege that certain of Cargill’s facilities are “major emitting facilities,”
as defined by Section 169(1) of the Act, 42 U.S.C. § 7479(1), and federal, state and local
regulations promulgated pursuant to the Act.

7. Cargill, individually and through its trade association, the Corn Refiners
Association, voluntarily disclosed to EPA and affected state and local regulatory agencies the
existence of unpermitted VOC emissions at its corn processing facilities.
8. Cargill initiated a process to correct permits for VOC emissions for all nine of its corn processing facilities in June and July 2003. Cargill also met with its state and local agencies for all facilities in July, August and September 2003 regarding the permit applications, VOC emissions and evaluation of VOC emission controls.

9. Cargill’s two facilities that produce ethanol received PSD permits in 1995 (Eddyville, Iowa) and 1993 (Blair, Nebraska), and have demonstrated compliance with the Best Available Control Technology ("BACT") VOC limits for ethanol-related emission sources (fermentation vents, rectifier vents, stillage evaporators, tank farms and loadouts) in these permits.

10. Cargill’s Lafayette, Indiana oilseed processing facility received a PSD permit in 2001 and complies with BACT VOC limits for the facility in this permit.

11. Cargill voluntarily invested more than $20 million over the past eight years in process unit improvements at its extraction facilities designed to and having the effect of reducing solvent loss and lowering VOC and HAP emissions. These improvements included enhancement of condensation processes at sixteen facilities and installation of vacuum assisted desolventizing systems at Cargill’s Bloomington, Illinois and Cedar Rapids West, Iowa facilities.

12. Under the terms of this Consent Decree, Cargill will optimize use of existing solvent recovery systems and commit to enforceable solvent loss rates as specified in this Consent Decree that are consistent with USEPA’s most stringent BACT determination for the type of oilseeds processing plant.
13. Cargill worked to develop and voluntarily implemented use of iso-hexane, a non-
hazardous air pollutant containing solvent that significantly reduces HAP emissions from
extraction processes at many of its extraction facilities.

14. Under the terms of this Consent Decree, Cargill will optimize existing or install
new thermal incineration emission control equipment at all feed dryers and carbon furnaces at its
corn processing facilities, thereby further reducing VOC and HAP emissions from these units.

IV. COMPLIANCE PROGRAM

Program Summary. As set forth in this Part, Cargill shall implement a program of
enforceable emissions reductions of SO\textsubscript{2}, CO, NO\textsubscript{x}, and VOCs from its corn processing and
oilseeds processing plants listed in Appendix A by at least 40,000 tons per year. This includes
approximate reductions of SO\textsubscript{2} of 15,000 tons per year, CO of 16,000 tons per year, NO\textsubscript{x} of
2,500 tons per year, and VOC of 6,500-11,500 tons per year. Cargill shall accomplish the
emission reductions through the installation of pollution control technologies and
implementation of emission reduction projects in accordance with the schedules set forth in this
Consent Decree. Where required, Cargill shall propose new emission limits, and submit permit
applications to the applicable permitting authority to incorporate the new limits into federally-
enforceable permits for the facility, and shall demonstrate compliance at all times with applicable
limits through performance tests, continuous emission or operating parameter monitoring, and
recordkeeping.

A. INSTALLATION OF CONTROLS AND APPLICABLE EMISSION
LIMITS

Cargill shall implement the following Emission Control Plans:

15. Boiler SO\textsubscript{2} Emission Cap. The Plaintiff and Appropriate Plaintiff-Intervenors
have reviewed Cargill’s responses to Plaintiff’s Clean Air Act Section 114 information request
regarding the construction, modification, operation and emissions history of Cargill’s coal-fired
boilers, listed in Appendix B. Based on their review of the information available to Plaintiff and
Plaintiff-Intervenors, the Plaintiff and Appropriate Plaintiff-Intervenors have not identified
liability for Cargill for failing to comply with New Source Review and/or Prevention of Significant Deterioration requirements for these sources.

Cargill will submit permit applications to the applicable permitting authority within three years from entry of this Consent Decree that will contain annual SO₂ emission limits for the facilities and boilers listed in Appendix B that, in aggregate, limit total annual SO₂ emissions to less than 15,355 tons per year based on a 12-month rolling sum. This represents a reduction of 15,067 tons of SO₂ per year from the current allowable emissions from these sources of 30,422 tons per year. To accommodate environmentally beneficial fuel switches to lower sulfur coal, these facilities are authorized to make changes to the coal boiler that maintain the heat input capacity of the coal boiler (including changes to coal boiler fuel receiving and handling systems and ash handling systems) that do not result in an increase in any single pollutant’s emissions above current boiler allowable emission rates or an increase in the heat input to the boiler and result in an overall decrease in emissions.

16. Additional SO₂ Emission Reduction Commitment. Cargill will submit a permit application to the applicable permitting authority within three years from entry of this Consent Decree that will include individual emission limits for the Cedar Rapids (PC Boiler – 72-CB), Memphis (PC Boiler – 8301) and Decatur (Stoker Boiler – S407) coal boilers that in aggregate will not exceed a capacity weighted average SO₂ emission rate of 1.2 lb/MMBtu. This represents a greater than 44 percent reduction in the pound per million BTU emission rate of SO₂ from the 2003 capacity weighted baseline pound per million BTU emission rate for these boilers of 2.16 lb/MMBtu and a greater than 60 percent reduction from the weighted allowable pound per million BTU emission rate of 3.1 lb/MMBtu.
17. **Boiler CO Emission Control Plan.** Cargill will undertake and complete the CO emissions reduction and combustion optimization project described in Appendix C within five years from entry of this Consent Decree. After completion of the emissions reduction and combustion optimization project and within five years from entry of this Consent Decree, Cargill shall propose a new CO limit to the applicable permitting authority for the Eddyville coal boilers (EU 1.001, 1.002 and 1.039) of 4,374 tons per year based on a 12-month rolling sum. This represents a reduction of 10,080 tons of CO per year from the current BACT allowable emissions from these boilers of 14,454 tons per year. After completion of the emission reduction and combustion optimization project and within five years from entry of the Consent Decree, to the extent Cargill is unable to achieve the limit of 4,374 tons of CO per year, which is based on a vendor performance guarantee, Cargill shall submit to the applicable permitting authority an alternative CO limit based on the demonstrated operation of boilers following completion of the emission reduction project. By letter of June 14, 2005, IDNR expressly approves this emission reduction and combustion optimization project as a pollution control project (to the extent provided by law) that is exempt from New Source Review requirements and EPA does not object to IDNR’s determination.

18. **Boiler NOx Emission Control Plan.** Within the schedule set forth in Appendix D, Cargill will submit permit applications to the applicable permitting authority that will limit NOx emissions from the units listed in Appendix D to the emission limits specified in Appendix D through the installation of controls, acceptance of enforceable operating limits and retirement of sources. This represents a reduction of at least 2,500 tons of NOx per year from the current allowable emissions from these sources.
19. **Extraction VOC Emission Control Plan for Soybean Processing Plants.** Cargill will submit permit applications within three years from entry of this Consent Decree that will propose a final VOC solvent loss limit (hereinafter, also referred to as “solvent loss ratio limit” or “SLR limit”) for each conventional soybean oilseed processing facility listed in Appendix E that in aggregate will not exceed a capacity weighted average of 0.175 gallon of VOC solvent loss per ton of oilseed processed (gallon/ton) based on a 12-month rolling average. Beginning three years from the date of entry of the Consent Decree, Cargill shall begin to account for solvent loss and quantity of oilseeds processed to comply with the proposed final solvent loss limit. For each soybean processing plant, the first compliance determination will be based on the first twelve operating months of data collected after the third year from entry of the Consent Decree. For any plant that has an existing permit limit lower than the applicable solvent loss factor (“SLF”) in 40 C.F.R. Part 63, Subpart GGGG, Cargill may not propose a final solvent loss ratio limit that is less stringent than either the existing permit limit or the Solvent Extraction for Vegetable Oil Production NESHAP limit. Capacity weighted averages shall be based on the capacities for each facility as listed in Appendix E. If the design capacity for any plant listed in Appendix E changes anytime within three years from entry of this Consent Decree, Cargill will notify the Plaintiff and the Appropriate Plaintiff-Intervenors as part of the next semi-annual report required under Paragraph 36 submitted after such change occurs. Compliance with the capacity weighted average solvent loss limit shall be demonstrated using the compliance demonstration formula in Appendix E.

20. **Extraction VOC Emission Control Plan for Corn Germ and Sunflower Processing Plants.** Cargill will submit permit applications within three years from entry of this Consent
Decree that will propose a final VOC solvent loss ratio limit for each corn germ and sunflower processing facility listed in Appendix F that in aggregate will not exceed a capacity weighted average of 0.30 gallon/ton based on a 12-month rolling average. Beginning three years from the date of entry of the Consent Decree, Cargill shall begin to account for solvent loss and quantity of oilseeds processed to comply with the proposed final solvent loss limit. For each corn germ and sunflower processing plant, the first compliance determination will be based on the first twelve operating months of data collected after the third year from entry of the Consent Decree. For any plant that has an existing permit limit lower than the applicable solvent loss factor ("SLF") in 40 C.F.R. Part 63, Subpart GGGG, Cargill may not propose a final VOC SLR limit that is less stringent than either the existing permit limit or the Solvent Extraction for Vegetable Oil Production NESHAP limit. Capacity weighted averages shall be based on the capacities for each facility as listed in Appendix F. If the design capacity for any plant listed in Appendix F changes anytime within three years from entry of this Consent Decree, Cargill will notify the Plaintiff and the Appropriate Plaintiff-Intervenors as part of the next semi-annual report required under Paragraph 36 submitted after such change occurs. Compliance with the capacity weighted average solvent loss limit shall be demonstrated using the compliance demonstration formula in Appendix F.

21. Extraction VOC Emission Control Plan for Specialty Processing Plants. Cargill will submit permit applications within three years from entry of this Consent Decree that will limit total solvent loss from the oilseed specialty facilities listed in Appendix G to the gallon/ton final VOC solvent loss ratio limits established in Appendix G for each facility based on a 12-month rolling average. Beginning three years from the date of entry of the Consent Decree,
Cargill shall begin to account for solvent loss and quantity of oilseeds processed to comply with the gallon/ton solvent loss limits established in Appendix G for each facility on a twelve month rolling average. For each specialty processing plant, the first compliance determination will be based on the first twelve operating months of data collected after the third year from entry of the Consent Decree.

22. **Interim Solvent Loss Ratios.** Beginning 90 days after lodging of this Consent Decree, Cargill will demonstrate compliance with the applicable solvent loss ratio for one facility included in Appendix G (Extraction VOC Emission Control Plan – Specialty Plants). Beginning 12 months after one year from entry of this Consent Decree, Cargill will meet for a minimum of five extraction facilities (listed on Appendices E and F) a weighted solvent loss average of 0.175 gallon/ton (for selected soybean processing plants in Appendix E), or 0.3 gallon/ton (for selected corn germ or sunflower processing plants in Appendix F) on a 12-month rolling average. Beginning 12 months after two years from entry of this Consent Decree, Cargill will meet for a minimum of ten extraction facilities (listed on Appendices E and F) a weighted solvent loss average of 0.175 gallon/ton (for selected soybean processing plants in Appendix E), or 0.3 gallon/ton (for selected corn germ or sunflower processing plants in Appendix F) on a 12-month rolling average.

23. **Corn Processing VOC Emission Control Plan for Process VOC Sources.** Cargill, through the installation of pollution control technologies and implementation of emission reduction projects (including emission unit elimination and heat recovery) will meet the level of control specified for the emission units included in Appendix H within the schedule established in Appendix H. Thermal oxidizers installed after lodging and according to the requirements of
this Consent Decree on emission units included in Appendix H located in ozone non-attainment areas (Dayton, Hammond, Memphis), will be designed to achieve at least 98 percent control of VOC emissions and will meet the level of control specified in Appendix H within the schedule established in Appendix H. Within five years from lodging of this Consent Decree, Cargill shall submit permit applications to the applicable permitting authority to incorporate the new VOC limits for emission units in Appendix H into federally enforceable permits for the facilities.

24. **Corn Processing VOC Emission Control Plan for Integrated Feed/Bran Drying Systems.** For integrated feed/bran drying systems listed in Appendix I, Cargill will optimize existing pollution control equipment (thermal oxidizers and scrubbers) and implement emission reduction projects (including emission unit elimination and heat recovery) to meet pollution control equipment operating parameters set forth in Appendix I or eliminate the emission unit within three years from lodging of this Consent Decree. Also within three years from lodging of this Consent Decree, Cargill will test and establish an allowable short-term VOC emission limit at the outlet of each scrubber stack, as set forth in Appendix I, for each integrated feed/bran drying system. Within five years from lodging of this Consent Decree, Cargill shall submit permit applications to the applicable permitting authority to incorporate the pollution control equipment operating parameters and allowable short-term VOC emission limits for integrated feed/bran drying systems listed in and established pursuant to Appendix I into federally enforceable permits.

25. **Corn Processing VOC Emission Control Plan – Dayton Facility.** Within five years from lodging of this Consent Decree, Cargill will submit a permit to install application ("PTT") to the Regional Air Pollution Control Agency in Dayton, Ohio that will limit process
source VOC and boiler NOₓ emissions from the group of sources listed in Appendix J (Dayton, Ohio Corn Processing Ozone Cap) to less than 854 tons per year based on a 12-month rolling sum. The 854 ton per year ozone cap reflects enforceable NOₓ emissions offsets of 404 tons per year for the three boiler emissions units in Appendix J and 98 percent VOC control for the process units identified in Appendix J. The PTI application shall also propose to install new thermal incineration emission control technology designed to achieve VOC destruction efficiency of not less than 98 percent to minimize VOC emissions for the process operations identified in Appendix H as emissions units P031, P052, P057, P072 and P088. The PTI application shall also propose to optimize the control devices listed in Appendix I to meet the equipment design and operational parameters established in Appendix I to minimize VOC emissions from the integrated feed/bran drying system identified as emissions units P032, P033, P034, P037, P040, and P058. Pursuant to the emission test procedures and schedule specified in Appendix J, allowable short-term VOC emission rates shall be established for the process VOC emission units identified in Appendix J. Such allowable short-term VOC emission rates shall be proposed as part of the PTI application. Compliance with the facility ozone cap and short term VOC emission limits established pursuant to this paragraph and Appendix J satisfies the requirement to meet the Lowest Achievable Emission Rate of 98 percent. The PTI application shall also propose to install low-NOₓ burner control technology for the two boilers identified in Appendix J as B004 and B006. The low-NOₓ burner control technology shall result in the short-term and annual emissions rates of NOₓ specified in Appendix D. Within one year of issuance of the Permit to Install, Cargill shall submit an application to incorporate the provisions of the PTI into the Title V operating permit.
Within one year from lodging of this Consent Decree, Cargill shall complete, and submit to RAPCA, an odor control optimization analysis report. The report shall include identification/speciation of potentially odorous volatile organic compounds expected to be emitted from emission units located at Cargill's Dayton, Ohio corn processing facility and subject to VOC control under Appendix H of this Consent Decree. Identification/speciation of potentially odorous compounds shall be based on review of past emissions testing and analysis at Cargill's facilities, third-party expert consultation, and reasonable review of available literature and information. The odor control optimization analysis report also shall include analysis and recommendations by a third-party expert regarding how controls mandated by the Consent Decree may be operated in a manner to reduce odor to the maximum extent practicable. Specifically, the report shall evaluate and provide recommendations regarding thermal oxidizer residence time between 0.5 and 1.0 second, thermal oxidizer operating temperature between 1200 degrees F and 1500 degrees F, and zero-hearth furnace operating temperatures between 1200 degrees F and 1500 degrees F. In making these recommendations, the third-party expert shall consider effectiveness on odor control, economic feasibility, and the potential for collateral emissions increases. In any permit applications required under this Consent Decree, for the emission units subject to VOC control under Appendix H of this Consent Decree, Cargill shall propose the operating parameters recommended by the third-party expert in the odor control optimization analysis report. Compliance with the operating parameters established pursuant to this paragraph and Appendix I shall be sufficient for purposes of compliance with Ohio Administrative Code Rule 3745-15-07(A).
26. **Corn Processing Process Source CO Emission Control Plan.** Cargill, through the installation of pollution control technologies and implementation of emission reduction projects (including emission unit elimination and heat recovery) will meet the level of control specified for the sources included in Appendix K within the schedule established in Appendix K. Within five years from lodging of this Consent Decree, Cargill shall submit permit applications to the applicable permitting authority to incorporate the new CO limits for sources in Appendix K into federally enforceable permits for the facilities.

27. **Hammond Process Source SO_{2} Emission Control Plan.** Cargill, through installation of pollution control technologies and implementation of emission reductions projects (including emission unit elimination) will meet the level of control specified for the sources included in Appendix L within three years from entry of this Consent Decree. Also within three years from entry of this Consent Decree, Cargill will submit to IDEM a formal request to amend Rule 326 IAC 7-4-1.1 to incorporate the new SO_{2} emission limits for sources in Appendix L into this Rule.

28. **Installation of air pollution control equipment and emission reduction projects undertaken pursuant to the emission control plans under Paragraphs 15-27 are intended to abate or control atmospheric pollution or contamination by removing, reducing, or preventing the emission of pollutants, and as such, are environmentally beneficial projects and are pollution control projects to the extent provided by law.**

29. **Additional Federal Requirements.** Upon entry of this Consent Decree, for all facilities included in Appendix A, Cargill shall identify and implement applicable New Source Performance Standards ("NSPS") requirements codified at 40 C.F.R. Part 60. The following
NSPS may apply: Subparts D, Db and Dc (certain steam generating units), DD (certain grain elevators), Kb (certain organic liquid storage tanks), GG (certain stationary gas turbines) VV (certain synthetic organic chemical manufacturing equipment) and Y (certain coal preparation plants). Within 12 months from the date of entry of this Consent Decree, Cargill shall file an amended Toxics Release Inventory form (Form R) for the corn processing facilities listed in Appendix A to include all identified chemicals. Within 90 days from the date of entry of this Consent Decree, Cargill shall comply with any notification and reporting requirements under CERCLA Section 304, 42 U.S.C. § 11004.

B. DEMONSTRATION OF COMPLIANCE

30. Cargill shall demonstrate compliance with the requirements of Paragraphs 15-29 through the use of performance testing, continuous emission monitoring, parametric monitoring, recordkeeping and reporting, as set forth below:

a. **Coal Boiler SO\textsubscript{2} Emission Reductions.** Cargill shall demonstrate compliance with the aggregate 12-month rolling sum of 15,355 tons of SO\textsubscript{2} per year for coal boilers listed in Appendix B beginning 12 months after the third year from entry of the Consent Decree by compliance with the 12-month rolling sum limits established in individual permits pursuant to Paragraph 15. Monitoring of emissions will be as provided in Appendix B (Boiler SO\textsubscript{2} Emission Control Plan). Cargill shall demonstrate that the individual facility permit limits comply with the combined SO\textsubscript{2} capacity weighted average of 1.2 lb/MMBtu established pursuant to Paragraph 16 (Additional SO\textsubscript{2} Emission Reduction Commitment) using the compliance formula set forth in Appendix B, note 2. Where coal boiler exhaust is commingled with exhaust from other sources,
compliance with this limit will be based on emissions from only the coal boilers, provided that Cargill can accurately quantify the coal boiler emissions. Cargill shall monitor emissions as provided in Appendix B (Boiler SO₂ Emission Control Plan).

b. **Boiler CO Emission Reductions.** Cargill shall demonstrate compliance with the 12-month rolling sum of 4,374 tons of CO per year, or the alternative limit proposed under Paragraph 17, from the Eddyville coal boilers (EU 1.001, 1.002 and 1.039) beginning 12 months after the fifth year from entry of the Consent Decree. Cargill shall monitor emissions as provided in Appendix C (Boiler CO Emission Control Plan).

c. **Boiler NOₓ Emission Reductions.** Within the schedule set forth in Appendix D (Boiler NOₓ Emission Control Plan), Cargill shall demonstrate compliance with coal and gas boiler NOₓ emission limits established pursuant to Appendix D. Cargill shall monitor emissions as provided in Appendix D, and shall conduct performance testing as provided in Appendix M (Performance Testing Plan).

d. **Extraction VOC Emissions Reductions.** Beginning 12 months after the first year from entry of this Consent Decree, Cargill will demonstrate at a minimum of five extraction facilities (listed on Appendices E and F) compliance with a weighted solvent loss average of 0.175 gallon/ton (for selected soybean processing plants in Appendix E), or 0.3 gallon/ton (for selected corn germ or sunflower processing plants in Appendix F) on a 12-month rolling average. Beginning 12 months after the second year from entry of this Consent Decree, Cargill will demonstrate at a minimum of ten extraction facilities compliance with a weighted solvent loss average of 0.175 gallon/ton (for selected soybean processing plants in Appendix E), or 0.3 gallon/ton (for selected
corn germ or sunflower processing plants in Appendix F) on a 12-month rolling average. Beginning 12 months after the third year from entry of the Consent Decree, Cargill will demonstrate compliance with applicable solvent loss ratios for all facilities included under Appendices E (Oilseeds Extraction VOC Emission Control Plan—Soybean Processing Plants), F (Extraction VOC Emission Control Plan—Corn Germ and Sunflower Processing Plants) and G (Extraction VOC Emission Control Plan—Specialty Processing Plants).

Compliance with the solvent loss ratio limits established pursuant to Paragraphs 19-22 shall be calculated on a monthly basis and determined in accordance with 40 C.F.R. Part 63, Subpart GGGG, with the following exceptions: (1) provisions pertaining to HAP content shall not apply; (2) solvent losses and quantities of oilseeds processed during startup and shutdown periods shall not be excluded in determining solvent losses; and (3) records shall be kept in the form of the table in Attachment N (Extraction Solvent Loss Recordkeeping Template), that show total solvent losses, solvent losses during malfunction periods, and adjusted solvent losses (i.e., total solvent losses minus malfunction losses) monthly and on a twelve month rolling average basis. Cargill may apply the provisions of 40 C.F.R. Part 63, Subpart GGGG pertaining to malfunction periods only when: (i) the malfunction results in a shutdown of the solvent extraction system; and (ii) cumulative solvent losses during malfunction periods at a plant do not exceed 4,000 gallons in a 12-month rolling period.
e. **Corn Processing VOC Emission Reductions.**

   i. **Process VOC Sources.** As stated in Paragraph 23, within the schedule established in Appendix H (Corn Processing VOC Emission Control Plan), Cargill will meet the level of control specified for the sources included in Appendix H. Cargill will monitor controls and emissions as provided in Appendix H and will conduct performance testing as provided in Appendix M (Performance Testing Plan) and, where applicable, Appendix O (Carbon Furnace Test Protocol).

   ii. **Integrated Feed/Bran Drying Systems.** As stated in Paragraph 24, within three years from lodging of the Consent Decree, Cargill will monitor and demonstrate compliance with control equipment operating parameters established under Appendix I as set forth under Appendix I. Also, within three years from lodging of the Consent Decree, Cargill will monitor control equipment and conduct testing as provided in Appendices I and M (Performance Testing Plan).

   iii. **Dayton Corn Processing Ozone Cap.** As stated in Paragraph 25, Cargill will demonstrate compliance with the Dayton Corn Processing Ozone Cap, which reflects enforceable NOx emissions offsets of 404 tons per year for the three boiler emission units in Appendix J and 98 percent VOC control for the process units identified in Appendix J, via the emission tracking mechanism provided in Appendix J. Such VOC and NOx emission tracking shall begin the fifth year from lodging of the Consent Decree. Cargill shall demonstrate compliance with the 12-month rolling sum ozone cap of 854 tons for the process.
source VOC and boiler NO\textsubscript{x} emission sources listed in Appendix J during the first 11 months following the fifth year from lodging of the Consent Decree as per the schedule in Appendix J. Cargill will track VOC and NO\textsubscript{x} emissions as provided in Appendix J (Dayton, Ohio Corn Processing Ozone Cap). NO\textsubscript{x} emissions will be continuously monitored as provided in Appendices D (Boiler NO\textsubscript{x} Emission Control Plan) and J (Dayton, Ohio Corn Processing Ozone Cap). To monitor VOC emissions, Cargill will develop and utilize VOC emission factors via performance testing as provided in Appendices J (Dayton, Ohio Corn Processing Ozone Cap) and M (Performance Testing Plan).

iv. **Dayton, Ohio Odor Control Optimization Analysis.** Within one year from lodging of this Consent Decree, Cargill shall complete, and submit to RAPCA, an odor control optimization analysis report for emission units subject to VOC control under Appendix H as required under Paragraph 25. Within five years from the date of lodging of this Consent Decree, Cargill shall implement the odor report recommendations for the emission units subject to VOC control under Appendix H.

v. **Hammond, Indiana RACT Plan.** Within five years from the date of lodging of this Consent Decree, Cargill shall submit the emission limits established pursuant to Paragraphs 23 and 24 and Appendices H and I as an amendment to the Hammond, Indiana facility’s RACT plan; IDEM shall incorporate the emission limits into the RACT plan.
f. **Corn Processing Process Source CO Emission Reductions.** As stated in Paragraph 26, within the schedule established in Appendix K, Cargill will meet the level of control specified for the sources included in Appendix K (Corn Processing Process CO Emission Control Plan). Controls and emissions will be monitored as provided in Appendix K and performance testing will occur as provided in Appendix M (Performance Testing Plan) and, where applicable, Appendix O (Carbon Furnace Test Protocol).

g. **Hammond Process Source SO₂ Emission Reductions.** As stated in Paragraph 27, within three years from entry of this Consent Decree, Cargill will meet the level of control specified for the sources included in Appendix L (Hammond Process Source SO₂ Emission Control Plan). Controls and emissions will be monitored as provided in Appendix L and performance testing will occur as provided in Appendix M (Performance Testing Plan).

31. **Continuous Emission Monitors Use and Certification.** For all new Continuous Emission Monitors ("CEMs") installed after entry and pursuant to this Consent Decree, Cargill shall install, calibrate and certify the CEMs and begin to continuously monitor emissions sufficient to meet the compliance schedules specified in Paragraph 30 and related appendices. Cargill shall thereafter continuously maintain and operate each CEM as specified in Appendices B-D.

32. **Source Testing.** Cargill shall conduct source testing to evaluate compliance with applicable requirements of this Consent Decree, as required under Appendix M. For each performance test that determines initial compliance or demonstration of emission limits with requirements under Appendices H and I, the performance test shall be conducted in accordance
with a protocol approved by Plaintiff and Appropriate Plaintiff-Intervenors. Testing for compliance or demonstration of emission limits for all other instances shall be conducted in accordance with a protocol approved by the Appropriate Plaintiff-Intervenors. During the source testing, all emission units shall be operated at maximum representative operating conditions. During the source testing, Cargill shall monitor, at a minimum, the operating parameters specified by Appendices B-L.

33. **Initial Emissions Report.** No later than 60 days after the completion of the source testing required pursuant to this Consent Decree, Cargill shall submit an Initial Emissions Report to the Plaintiff and Appropriate Plaintiff-Intervenors. This report shall include, where applicable, the source test report or a summary of emission monitoring data; Cargill’s proposed emission limit as required by the emission control plans under Paragraphs 15-27; and the operating parameter(s) ranges or limits that Cargill proposes to monitor for compliance demonstration as required under this Consent Decree or Appendices B-L.

34. **Proposed and Final Emission Limits.** The Plaintiff and Appropriate Plaintiff-Intervenor shall set the final emission limit, and operating parameter ranges or limits, as appropriate and consistent with the provisions of this Consent Decree, taking into consideration Cargill’s Initial Emissions Report under Paragraph 33, process variability, test methodology, a reasonable certainty of compliance and any other information pertinent to the specific emission unit. Cargill shall comply with the proposed emission limit immediately following submission of the Initial Report and shall comply with the Final Limit no later than 60 days following Cargill’s receipt of notice from the Plaintiff and Appropriate Plaintiff-Intervenors regarding the Final Limit.
C. RECORDKEEPING AND REPORTING REQUIREMENTS

35. Data Retention. Cargill shall conduct monitoring as required by the Emission Control Plans and Paragraphs 30(a)-30(g), and shall maintain records of this monitoring data in accordance with the record retention requirements set forth in Paragraph 37.

36. Semi-annual Reports. Cargill shall submit semi-annual written reports to the Plaintiff and Plaintiff-Intervenors that describe Emission Control Plan requirements, the applicable deadlines and the dates the tasks were completed. Each report shall also contain i) any deviations from emission limitations, operational restrictions, performance testing requirements and control device operating parameter limitations, including deviations resulting from malfunctions, that have been detected by the testing, monitoring, and recordkeeping requirements specified in this Consent Decree; ii) the probable cause of such deviations; and iii) any corrective actions or preventive measures taken. If no deviations occurred during a reporting period, Cargill shall submit a written report which states that no deviations occurred. Each report shall be due within thirty days after the end of each semi-annual reporting period (January 1 through June 30, or July 1 through December 31, as applicable, except the first report where the reporting period is from the date of lodging of this Consent Decree through December 31, 2005). Reports shall be submitted as set forth in Paragraph 84 (Notice and Penalty Payment). Emissions data may be submitted in electronic format unless otherwise requested by the Appropriate Plaintiff-Intervenor.

37. Cargill shall retain records required by Paragraphs 15-30 of this Consent Decree for a period of five years unless other state or local regulations require the records to be maintained longer.
38. Cargill’s semi-annual reports shall contain the following certification and may be signed by the company employees responsible for corn and oilseed processing environmental management and compliance:

“I certify under penalty of law that I have personally examined the information submitted herein and that I have made a diligent inquiry of those individuals immediately responsible for obtaining the information and that to the best of my knowledge and belief, the information submitted herewith is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.”

D. PERMITTING

39. Within the schedules specified in Paragraphs 15-27 of the Consent Decree, Cargill shall apply for modification of its federally-enforceable construction and/or operating permits to incorporate the specific emission reduction requirements, emission limits, operating parameters, performance testing requirements, monitoring requirements and recordkeeping requirements specified under Paragraphs 15-27. It is the intent of the parties that the requirements under Paragraphs 15-27 and associated appendices survive termination of this Consent Decree and are deemed “applicable requirements” under Title V of the Clean Air Act and state and local operating permit programs that implement the requirements of Title V. EPA, states and local agencies agree to propose as permit conditions, and may propose as revisions to their SIPs, the specific emission limits, operating parameters, monitoring requirements and recordkeeping requirements set forth under Paragraphs 15-27 and associated appendices, and as proposed by Cargill under Paragraphs 15-27 so long as Cargill’s proposal is consistent with Consent Decree emission reduction requirements. Cargill agrees not to contest any such permit conditions or SIP revisions. For emission reduction projects necessary to meet the requirements of Paragraphs 15-
28 and 30 of this Consent Decree, Cargill, as necessary, shall apply for modification of its federally-enforceable operating permits to incorporate revised emission limits for any collateral emissions increases resulting from implementation of such emission reduction projects within the schedules specified in Paragraphs 15-28 of the Consent Decree for permitting of such projects. For units and pollutants not addressed by the emission reduction programs under Paragraphs 15-27 of this Consent Decree, Cargill shall have a period of 3 years from the date of lodging of the Consent Decree to apply for a permit or permit amendment to impose or modify the VOC, HAP or CO emission limits for the sources included in Appendix A. Prior to issuance of revised construction and/or operating permits that incorporate Consent Decree requirements, Cargill shall operate all units identified in Paragraphs 15-28 of this Consent Decree and associated appendices in accordance with the provisions of Paragraphs 15-28 and 30 of this Consent Decree and associated appendices.

V. CIVIL PENALTY

40. Within thirty (30) calendar days of entry of this Consent Decree, Cargill shall pay to the United States and Plaintiff-Intervenors a total civil penalty pursuant to Section 113 of the Act, 42 U.S.C. § 7413 in the amount of $1,600,000. The Plaintiffs agree that to the extent the emission reduction projects required in this Consent Decree result in emission reductions not otherwise required by law, they have been considered environmentally beneficial projects for civil penalty mitigation.

41. Of the total civil penalty, $830,769 shall be paid to the United States by Electronic Funds Transfer ("EFT") to the United States Department of Justice, in accordance with current EFT procedures, referencing the USAO File Number and DOJ Case Number, and
the civil action case name and case number. The costs of such EFT shall be Cargill's responsibility. Payment shall be made in accordance with instructions provided to Cargill by the Financial Litigation Unit of the U.S. Attorney's Office. Any funds received after 11:00 a.m. (EST) shall be credited on the next business day. Cargill shall provide notice of payment, referencing the USAO File Number and DOJ Case Number, and the civil action case name and case number, to the Department of Justice and to EPA, as provided in Paragraph 84 (Notice and Penalty Payment).

42. Of the total civil penalty, $769,231 shall be divided among the state and local air authorities that have filed Complaints in Intervention and joined the claims alleged by the United States in this action. Cargill shall make payment as follows:

a) $61,538 to the State of Alabama;
b) $30,769 to the State of Georgia;
c) $30,769 to the State of Illinois;
d) $61,538 to the State of Indiana;
e) $123,082 to the State of Iowa;
f) $92,307 to Linn County, Iowa;
g) $30,769 to Polk County, Iowa;
h) $30,769 to the State of Missouri;
i) $61,538 to the State of Nebraska;
j) $61,538 to the State of North Carolina;
k) $61,538 to the State of North Dakota;
l) $30,769 to the State of Ohio;
m) $30,769 to Montgomery County, Ohio; and
n) $61,538 to the City of Memphis and Shelby County, Tennessee.

Payment shall be made as provided in Paragraph 84 (Notice and Penalty Payment).

43. Upon entry of this Consent Decree, this Consent Decree shall constitute an enforceable judgment for purposes of post-judgment collection in accordance with Rule 69 of the Federal Rules of Civil Procedure, the Federal Debt Collection Procedure Act, 28 U.S.C. § 3001-3308, and other applicable federal authority. The Plaintiff shall be deemed a judgment creditor for purposes of collection of any unpaid amounts of the civil and stipulated penalties and interest.

44. No amount of the total civil penalty of $1,600,000 to be paid by Cargill shall be used to reduce its federal or state tax obligations.

45. Supplemental Environmental Projects. By no later than five years from entry of this Consent Decree, Cargill shall complete implementation of the Supplemental Environmental Projects ("SEPs") identified in Appendix P (Supplemental Environmental Projects) (hereinafter, "Appendix P SEPs") at an aggregate cost of at least $3,000,000, in accordance with the requirements of Paragraphs 46-48.

46. Within one year from entry of this Consent Decree, Cargill shall provide Plaintiff and Plaintiff-Intervenors with a work plan that provides the proposed schedule for commencing and completing construction of the Appendix P SEPs. The work plan submitted under this paragraph is incorporated by reference herein and made directly enforceable under the Consent Decree.
47. Semi-annual reports, as required under Paragraph 36, shall include a description of work undertaken to implement the Appendix P SEPs and an accounting of all costs incurred in implementing the Appendix P SEPs. Cargill shall provide, upon request, copies of invoices, receipts, purchase orders or other documentation of costs incurred to implement the Appendix P SEPs.

48. Within five years from entry of this Consent Decree, Cargill shall provide an Appendix P SEP completion report to Plaintiffs that documents the dates each project was completed, results of implementing the project (including energy and emission reductions), and project dollars expended by Cargill in implementing the projects.

49. **Community-Based Supplemental Environmental Projects.** By no later than five years from entry of this Consent Decree, Cargill shall complete implementation of the Community-Based SEPs identified below at an aggregate cost of at least $500,000:

   a. Mid-South Clean Air Coalition Diesel Retrofit program in Shelby County, TN;
   b. Eddyville Dunes and Wetland Restoration Project in Eddyville, IA;
   c. Cedar Rapids, IA Indian Creek Nature Center Wetlands Restoration Project;
   d. Nebraska-Missouri River Wetland Reserve Enhancement Program; and
   e. Such additional or alternative Community-Based SEPs as Cargill may propose, subject to Plaintiff’s approval.
The implementation of the Community-Based SEPs shall be deemed complete upon Cargill’s expenditure of at least $500,000 in accordance with the work plan approved pursuant to Paragraph 50.

50. Within one year from entry of this Consent Decree, Cargill shall provide to Plaintiff and Plaintiff-Intervenors, for review and approval, a detailed work plan that provides the proposed schedule for commencing and completing the Community-Based SEPs identified above, as well as describing the nature, scope and goals of the projects, and where they are to be implemented. Cargill, subject to Plaintiff’s approval, may propose an alternative or additional Community-Based SEP. Cargill’s Community-Based SEP work plans shall be approved by the Plaintiff and Appropriate Plaintiff-Intervenors provided they conform to the requirements of EPA’s Supplemental Environmental Projects Policy (eff. May 1, 1998).

51. **Community-Based SEP Completion Report.** For the Community-Based SEPs completed under this Section during a particular semiannual period, Cargill shall provide, as part of the semiannual report for that period, a Community-Based SEP Completion Report certified in accordance with Paragraph 38 of this Consent Decree and containing the following information:
   a. A detailed description of the Community-Based SEP as implemented;
   b. A description of any pre-report implementation problems encountered and the solutions thereto;
   c. An accounting of all costs incurred by Cargill for the purpose of implementing the Community-Based SEP. Cargill shall provide, upon request, copies of the invoices, receipts, purchase orders, or other documentation that specifically identifies and itemizes the individual cost
or the goods and/or services for which payment is being made. Canceled drafts do not constitute acceptable documentation unless such drafts specifically identify and itemize the individual costs of the goods and/or services for which payment is being made; and
d. A certification that the Community-Based SEP has been satisfactorily completed which is signed by the company employees responsible for corn and oilseed processing environmental management and compliance.

52. Acceptance of Community-Based SEP Completion Report. After receipt of the Community-Based SEP Completion Report described in Paragraph 51 above, the Plaintiff and Appropriate Plaintiff-Intervenors will notify Cargill, in writing, regarding: (a) any deficiencies in the Community-Based SEP Completion Report along with a grant of an additional thirty (30) days for Cargill to correct any deficiencies; or (b) indicate that the Plaintiff and Appropriate Plaintiff-Intervenors conclude that the project has been completed satisfactorily; or (c) determine that the project has not been completed satisfactorily and seek stipulated penalties in accordance with Paragraph 57 herein.

53. If the Plaintiff and Appropriate Plaintiff-Intervenors elect to exercise option (a) above, i.e., if the Community-Based SEP Completion Report is determined to be deficient but Plaintiffs and Appropriate Plaintiff-Intervenors have not yet made a final determination about the adequacy of Community-Based SEP completion itself, Cargill shall have the opportunity to object in writing to the notification of deficiency given pursuant to this paragraph within ten (10) days of receipt of such notification. The Plaintiffs and Appropriate Plaintiff-Intervenors and Cargill shall have an additional thirty (30) days from the receipt of the Plaintiffs and Appropriate
Plaintiff-Intervenors notification of objection to reach agreement on changes necessary to the Community-Based SEP Completion Report. If agreement cannot be reached on any such issue within this thirty (30) day period, the Plaintiff and Appropriate Plaintiff-Intervenors shall provide a written statement of their decision on the adequacy of the completion of the Community-Based SEP to Cargill.

54. If for any reason Cargill expends less than the full amount in Paragraphs 45 (Appendix P SEPs) or 49 (Community-Based SEPs), Cargill shall pay the balance of the unexpended funds in accordance with the payment requirements set forth in Paragraph 41, within thirty (30) days of receipt of written notification of the unexpended funds from the United States.

55. In any public statement regarding the funding of Appendix P SEPs or Community-Based SEPs implemented under this Consent Decree, Cargill shall clearly indicate that these projects are being undertaken as part of the settlement of an enforcement action for alleged environmental violations. Cargill shall not be able to use or rely on any emissions reductions generated as a result of its performance of the Appendix P SEPs or Community-Based SEPs in any federal or state emission averaging, banking, trading or netting program.

56. These Paragraphs 45-55 shall not relieve Cargill of its obligation to comply with all applicable provisions of federal, state or local law during the implementation of the Appendix P SEPs or Community-Based SEPs, nor shall they be construed to be a ruling on, or determination of, any issue related to any federal, state or local permit, nor shall they be construed to constitute Plaintiffs approval of the equipment or technology installed by Cargill in connection with the Appendix P SEPs or Community-Based SEPs undertaken pursuant to this Consent Decree.
VI. STIPULATED PENALTIES

57. Cargill shall pay stipulated penalties in the amounts set forth below to the Plaintiff for violations of the Consent Decree. When a violation of the Consent Decree is at a specific facility, Cargill shall divide the stipulated penalty set forth below equally among the Plaintiff and the Appropriate Plaintiff-Intervenors for the following:

a. For failure to comply with a proposed emission limit under Paragraphs 15-29 (other than, for proposed emission limits under Paragraphs 23-26, startup, shutdown or malfunction events as defined in 40 C.F.R. Part 63), per day, per unit:
   
   For one through three days per calendar month - $1,500
   For four through ten days per calendar month - $2,500
   For greater than 10 days per calendar month - $5,000

b. For failure to monitor operating parameters for pollution control equipment established under Paragraphs 15-29, per day, per calendar quarter, per device not monitored:

   For four to ten days per calendar quarter - $1,500
   For eleven through twenty days per calendar quarter - $2,500
   For greater than twenty days per calendar quarter - $3,750

c. For failure to operate air pollution control devices within parameters as established under Paragraphs 15-29 (other than, for parameters as established under Paragraphs 23-26, startup, shutdown or malfunction events as defined in 40 C.F.R. Part 63), per day, per device:

   For two to six days per calendar month - $1,500
   For seven through twelve days per calendar month - $2,500
   For greater than twelve days per calendar month - $3,750
d. For failure to meet the 12-month rolling average solvent loss ratio limits established pursuant to Paragraphs 19-22:

For each exceedance of a 12-month rolling average - $30,000

e. For failure to install CEMs on sources pursuant to Paragraphs 30(a)-(c) and Appendices B, C and D, per a CEM not timely installed:

For first full month of delay - $2,500
For each subsequent month and fraction thereof - $2,500

f. For failure to certify CEMs pursuant to Paragraphs 30(a)-(c) and Appendices B, C and D, per a CEM not certified:

For first full month of delay - $2,500
For each subsequent month and fraction thereof - $2,500

g. For failure to operate CEMs pursuant to Paragraphs 30(a)-(c) and Appendices B, C and D, per CEM not operated, $100 per day.

h. For failure to apply for permits incorporating emission limits as required by Paragraphs 15-28, $1,000 per the first full week of delay, and $1,000 per each subsequent week of delay, or fraction thereof.

i. For failure to preserve records as specified in Paragraph 37 of the Consent Decree:

Per record not retained per day: $500

j. For failure to conduct a compliance test as required by Paragraph 30, per day, per unit:

<table>
<thead>
<tr>
<th>Period</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st through 30th day after deadline</td>
<td>$1,000</td>
</tr>
<tr>
<td>31st through 60th day after deadline</td>
<td>$2,000</td>
</tr>
<tr>
<td>Beyond 60th day</td>
<td>$5,000</td>
</tr>
</tbody>
</table>
k. For failure to complete the CO emission reduction project required under Paragraph 17, $1,000 per a day.

l. For failure to submit a semi-annual report required by Paragraph 36 of this Consent Decree, per day:

- 1st through 30th day after deadline $200
- 31st through 60th day after deadline $500
- Beyond 60th day $1,000

m. For failure to notify the Plaintiffs of Cargill’s sale or transfer of a facility pursuant to Paragraph 2, $250 per day.

n. For failure to pay the civil penalty as specified in Section V of this Consent Decree, Cargill shall pay an additional $30,000 per week that full payment is delayed plus interest on the amount overdue at the rate specified in 31 U.S.C. § 3717.

o. For failure to satisfactorily complete implementation of the Appendix P SEPs or Community-Based SEPs as required under Paragraphs 45 and 49, Cargill shall pay the shortfall as provided in Paragraph 54 and pay a stipulated penalty of $50,000, each.

p. For failure to submit each of the proposed work plans required by Paragraphs 46 and 50, or each of the completion reports required by Paragraphs 48 and 51 of the Consent Decree, per day:

- 1st through 30th day after deadline $1,000
- 31st through 60th day after deadline $2,000
- Beyond 60th day $3,000

q. For failure to escrow stipulated penalties as required by Paragraph 59, $1,425 per day.
58. Cargill shall pay stipulated penalties upon written demand by the Plaintiff and the Plaintiff-Intervenors no later than thirty (30) days after Cargill receives such demand. Stipulated penalties shall be paid to the Plaintiff and the Plaintiff-Intervenors as provided in Paragraphs 57 and 84 (Notice and Penalty Payment) of this Consent Decree.

59. Should Cargill dispute its obligation to pay part or all of a stipulated penalty, it may avoid the imposition of the stipulated penalty for failure to pay a penalty due to the Plaintiff and the Plaintiff-Intervenors by placing the disputed amount demanded by the Plaintiff and the Plaintiff-Intervenors, not to exceed $30,000 for any given event or related series of events at any one plant, in a commercial escrow account pending resolution of the matter and by invoking the Dispute Resolution provisions of Part IX within the time provided in Paragraph 58 for payment of stipulated penalties. If the dispute is thereafter resolved in Cargill’s favor, the escrowed amount plus accrued interest shall be returned to Cargill. Otherwise the Plaintiff and Plaintiff-Intervenors shall be entitled to the escrowed amount that was determined to be due by the Court plus the interest that has accrued on such amount, with the balance, if any, returned to Cargill.

60. The Plaintiff and Plaintiff-Intervenors reserve the right to pursue any other remedies for violations of this Consent Decree to which they are entitled. The Plaintiff and Plaintiff-Intervenors will not seek stipulated penalties and civil or administrative penalties for the same violation of the Consent Decree.

VII. RIGHT OF ENTRY

61. Nothing in this Consent Decree shall limit the authority of EPA and Plaintiff-Intervenors to conduct tests and inspections under Section 114 of the Act, 42 U.S.C. § 7414, or any other applicable law.
VIII. FORCE MAJEURE

62. If any event occurs which causes or may cause a delay or impediment to performance in complying with any provision of this Consent Decree, Cargill shall notify the Plaintiff and Plaintiff-Intervenors in writing as soon as practicable, but in any event within twenty (20) business days of when Cargill first knew of the event or should have known of the event by the exercise of due diligence. In this notice Cargill shall specifically reference this Paragraph of this Consent Decree and describe the anticipated length of time the delay may persist, the cause or causes of the delay, and the measures taken or to be taken by Cargill to prevent or minimize the delay and the schedule by which those measures will be implemented. Cargill shall adopt all reasonable measures to avoid or minimize such delays.

63. Failure by Cargill to provide notice to the Plaintiff and Plaintiff-Intervenors of an event which causes or may cause a delay or impediment to performance shall render this Part VIII voidable by the Plaintiff and Plaintiff-Intervenors as to the specific event for which Cargill has failed to comply with such notice requirement, and, if voided, is of no effect as to the particular event involved.

64. The Plaintiff or the Plaintiff-Intervenors shall notify Cargill in writing regarding Cargill’s claim of a delay or impediment to performance as soon as practicable, but in any event within thirty (30) days of receipt of the Force Majeure notice provided under Paragraph 62. If the Plaintiff or the Plaintiff-Intervenors agree that the delay or impediment to performance has been or will be caused by circumstances beyond the control of Cargill, including any entity controlled by Cargill, and that Cargill could not have prevented the delay by the exercise of due diligence, the parties shall stipulate to an extension of the required deadline(s) for all
requirement(s) affected by the delay by a period equivalent to the delay actually caused by such circumstances. Cargill shall not be liable for stipulated penalties for the period of any such delay.

65. If the Plaintiff and the Plaintiff-Intervenors do not accept Cargill’s claim that a delay or impediment to performance is caused by a force majeure event, to avoid payment of stipulated penalties, Cargill must submit the matter to this Court for resolution within twenty (20) business days after receiving notice of the Plaintiff’s and the Plaintiff-Intervenors position, by filing a petition for determination with this Court. Once Cargill has submitted this matter to this Court, the Plaintiff and Plaintiff-Intervenors shall have twenty (20) business days to file their response to said petition. If Cargill submits the matter to this Court for resolution and the Court determines that the delay or impediment to performance has been or will be caused by circumstances beyond the control of Cargill, including any entity controlled by Cargill, and that Cargill could not have prevented the delay by the exercise of due diligence, Cargill shall be excused as to that event(s) and delay (including stipulated penalties), for a period of time equivalent to the delay caused by such circumstances.

66. Cargill shall bear the burden of proving that any delay of any requirement(s) of this Consent Decree was caused by or will be caused by circumstances beyond their control, including any entity controlled by it, and that Cargill could not have prevented the delay by the exercise of due diligence. Cargill shall also bear the burden of proving the duration and extent of any delay(s) attributable to such circumstances. An extension of one compliance date based on a particular event may, but does not necessarily, result in an extension of a subsequent compliance date or dates.
67. Unanticipated or increased costs or expenses associated with the performance of Cargill's obligations under this Consent Decree shall not constitute circumstances beyond the control of Cargill, or serve as a basis for an extension of time under this Part. However, failure of a permitting authority to issue a necessary permit in a timely fashion is an event of Force Majeure where Cargill has taken all steps available to it to obtain the necessary permit including but not limited to:

a. submitting a timely and complete permit application;

b. responding to requests for additional information by the permitting authority in a timely fashion; and

c. prosecuting appeals of any disputed terms and conditions imposed by the permitting authority in an expeditious fashion.

68. Notwithstanding any other provision of this Consent Decree, this Court shall not draw any inferences nor establish any presumptions adverse to either party as a result of Cargill delivering a notice of Force Majeure or the parties' inability to reach agreement.

69. As part of the resolution of any matter submitted to this Court under this Part VIII, the parties by agreement, or this Court, by order, may in appropriate circumstances extend or modify the schedule for completion of work under this Consent Decree to account for the delay in the work that occurred as a result of any delay or impediment to performance agreed to by the Plaintiff and the Plaintiff-Intervenors or approved by this Court. Cargill shall be liable for stipulated penalties for their failure thereafter to complete the work in accordance with the extended or modified schedule.
IX. DISPUTE RESOLUTION

70. The dispute resolution procedure provided by this Part IX shall be available to resolve all disputes arising under this Consent Decree except as otherwise provided in Part VIII regarding Force Majeure.

71. The dispute resolution procedure required herein shall be invoked upon the giving of written notice by one of the parties to this Consent Decree to another advising of a dispute pursuant to this Part IX. The notice shall describe the nature of the dispute, and shall state the noticing party's position with regard to such dispute. The party receiving such a notice shall acknowledge receipt of the notice and the parties shall expeditiously schedule a meeting to discuss the dispute informally not later than fourteen (14) days from the receipt of such notice.

72. Disputes submitted to dispute resolution shall, in the first instance, be the subject of informal negotiations between the parties. Such period of informal negotiations shall not extend beyond thirty (30) calendar days from the date of the first meeting between representatives of the Plaintiff, the Plaintiff-Intervenors with jurisdiction over the facility at which the dispute arose and Cargill, unless the parties' representatives agree to shorten or extend this period.

73. In the event that the parties are unable to reach agreement during such informal negotiation period, the Plaintiff and the participating Plaintiff-Intervenors shall provide Cargill with a written summary of their position regarding the dispute. In the event the Plaintiff and the participating Plaintiff-Intervenor disagree, the position of the Plaintiff shall control. The position advanced by the Plaintiff and the participating Plaintiff-Intervenors shall be considered binding unless, within forty-five (45) calendar days of Cargill's receipt of the written summary of the
Plaintiff and the participating Plaintiff-Intervenors position, Cargill files with this Court a petition which describes the nature of the dispute, and includes a statement of Cargill's position and any supporting data, analysis, and/or documentation relied on by Cargill. The Plaintiff and the participating Plaintiff-Intervenors shall respond to the petition within forty-five (45) calendar days of filing.

74. Where the nature of the dispute is such that a more timely resolution of the issue is required, the time periods set out in this Part IX may be shortened upon motion of one of the parties to the dispute.

75. Notwithstanding any other provision of this Consent Decree, in dispute resolution, this Court shall not draw any inferences nor establish any presumptions adverse to either party as a result of invocation of this Part IX or the parties' inability to reach agreement. The final position of the Plaintiff and the participating Plaintiff-Intervenors shall be upheld by the Court if supported by substantial evidence in the record as identified and agreed to by all the Parties.

76. As part of the resolution of any dispute submitted to dispute resolution, the parties, by agreement, or this Court, by order, may, in appropriate circumstances, extend or modify the schedule for completion of work under this Consent Decree to account for the delay in the work that occurred as a result of dispute resolution. Cargill shall be liable for stipulated penalties for their failure thereafter to complete the work in accordance with the extended or modified schedule.
X. GENERAL PROVISIONS

77. **Effect of Settlement.**

a. This Consent Decree is not a permit; compliance with its terms does not guarantee compliance with any applicable federal, state or local laws or regulations. During the effective period of the Consent Decree, Cargill shall comply with the specific emission reduction requirements, emission limits, operating parameters, monitoring requirements and recordkeeping requirements specified in this Consent Decree including those specified pursuant to Paragraph 19, which shall supercede and control over corresponding terms and conditions of any air quality control permits existing as of the date of entry of this Consent Decree.

b. In determining whether a future modification will result in a significant net emissions increase, Cargill shall not take credit for any emissions reductions required by this Consent Decree, as set forth in Paragraphs 15-27, for netting purposes as defined by the applicable regulations implementing Part C of Title I of the Clean Air Act. In addition, the emission reductions of PM, PM10, NOx, SO2, CO and VOC (at units other than dryers) required under this Consent Decree, as set forth in Paragraphs 15-27, may not be used for any emissions offset, banking, selling or trading program. No further offsets are required for any emission units existing at the facilities in Appendix A as of the date of lodging of this Consent Decree. Cargill may continue to sell and trade: i) NOx credits of 50 tons per year for the Memphis facility (an amount equal to the average credits available to Cargill in 2003 and 2004 and representative of Cargill’s baseline operations); and ii) emission credits resulting from reductions in excess of those required
to meet the emission limits set forth in Appendices B-L. Cargill may not use VOC emission reductions up to 98 percent of the uncontrolled dryer emissions from sources in Appendices H, I and J for any emissions offset, banking, selling or trading program.

c. Nothing in this Consent Decree shall be construed to limit the ability of the State of Nebraska to ensure compliance with the National Ambient Air Quality Standards (NAAQS) and the PSD increment provisions of 40 C.F.R. Part 52.21(c) and the corresponding state regulations.

78. Resolution of Claims. Satisfaction of the requirements of this Consent Decree constitutes full settlement of and shall resolve all past civil and administrative liability of Cargill and all owners and prior owners and/or operators of the facilities listed in Appendix A to the Plaintiff and the Plaintiff-Intervenors for the violations alleged in the United States’ and Plaintiff-Intervenors’ Complaints (and any Notices of Violation referenced therein), and all civil and administrative liability of Cargill, and all owners and prior owners and/or operators of the facilities listed in Appendix A, for any violations at the facilities included in Appendix A arising out of facts and events that occurred or may have occurred during the relevant time period, or that arise out of execution of the provisions of this Consent Decree, under the following statutory and regulatory provisions:

a. PSD and Nonattainment New Source Review Requirements at Parts C and D of Subchapter I of the Act and the regulations promulgated thereunder at 40 C.F.R. Part 52.21 and 51.165, and the SIP provisions which incorporate and implement the above listed federal statute and regulations;
b. **New Source Performance Standards** under Section 111 of the Clean Air Act and the regulations promulgated thereunder at 40 C.F.R. Part 60, including Subparts D, Db, Dc, DD, Kb, GG, VV, and Y, and the SIP provisions which incorporate and implement the above listed federal statute and regulations;

c. **Toxic Chemical Release Reporting Requirements** pursuant to EPCRA Section 313, 42 U.S.C. § 11023;

d. **CERCLA Notification and Reporting Requirements** under EPCRA Section 304, 42 U.S.C. § 11004;

e. **State Implementation Plan Requirements and State and Local Air Permitting Statutes and Regulations** for: (1) permitting of the construction and operation of new and modified stationary sources; (2) requirements relating to emission limits in permits issued for such construction and operation; (3) performance testing and emissions monitoring; (4) data submission and notification requirements; (5) supplementation of permit applications; (6) hazardous air pollutants; (7) emission limits, control requirements, and standards of performance; (8) odor, noise or other nuisance; and (9) payment of fees based on quantity of emissions.

For purposes of this Consent Decree, the "relevant time period" shall mean the period beginning when the United States' claims and/or Plaintiff-Intervenor's claims under the above statutes and regulations accrued through the date of entry of this Consent Decree. During the effective period of the Consent Decree, the emission units subject to this Consent Decree shall be on a compliance schedule and any modification to these units, as defined in 40 C.F.R. Part 52.21, which is not required by this Consent Decree is
beyond the scope of this resolution of claims. Nothing in this Paragraph 78 shall be construed to limit the Plaintiff and Plaintiff-Intervenor’s right to demand stipulated penalties in accordance with Paragraph 57. Paragraph 78 shall survive the termination of the Consent Decree.

79. **Other Laws.** Except as specifically provided by this Consent Decree, nothing in this Consent Decree shall relieve Cargill of its obligation to comply with all applicable federal, state and local laws and regulations. Nothing in this Consent Decree shall relieve Cargill of its obligation to comply with state and local laws, rules and regulations which become effective after the date of lodging of the consent decree or with State Implementation Plan provisions promulgated after the date of lodging of the Consent Decree. Subject to Paragraphs 60 and 78, nothing contained in this Consent Decree shall be construed to prevent or limit the United States’ or the Plaintiff-Intervenor’s rights to obtain penalties or injunctive relief under the Act or other federal, state or local statutes or regulations, including but not limited to, Section 303 of the Act, 42 U.S.C. § 7603.

80. **Third Parties.** Except as otherwise provided by this Consent Decree or by law, this Consent Decree does not limit, enlarge or affect the rights of any party to this Consent Decree as against any third parties. Nothing in this Consent Decree should be construed to create any rights, or grant any cause of action, to any person not a party to this Consent Decree.

81. **Costs.** Each party to this Consent Decree shall bear its own costs and attorneys' fees through the date of entry of this Consent Decree.

82. **Public Documents.** All information and documents submitted by Cargill to the Plaintiff and Plaintiff-Intervenors pursuant to this Consent Decree shall be subject to public
inspection, unless subject to legal privileges or protection or identified and supported as business confidential by Cargill in accordance with 40 C.F.R. Part 2.

83. **Public Comments - Federal Approval.** The parties agree and acknowledge that final approval by the United States and entry of this Consent Decree is subject to the requirements of 28 C.F.R. Part 50.7, which provides for notice of the lodging of this Consent Decree in the Federal Register, an opportunity for public comment, and consideration of any comments. The United States reserves the right to withdraw or withhold consent if the comments regarding this Consent Decree disclose facts or considerations which indicate that this Consent Decree is inappropriate, improper or inadequate. Cargill and the Plaintiff-Intervenors consent to the entry of this Consent Decree.

84. **Notice and Penalty Payment.** Unless otherwise provided herein, notifications to or communications with the United States, EPA, the Plaintiff-Intervenors or Cargill shall be deemed submitted on the date they are postmarked and sent either by overnight receipt mail service or by certified or registered mail, return receipt requested. Except as otherwise provided herein, when written notification to or communication with the United States, EPA, the Plaintiff-Intervenors or Cargill is required by the terms of this Consent Decree or when payment of a penalty is required by the terms of this Consent Decree, it shall be addressed or paid as set forth in Appendix Q:

85. **Change of Notice Recipient.** Any party may change either the notice recipient or the address for providing notices to it by serving all other parties with a notice setting forth such new notice recipient or address.
86. **Modification.** Except as provided herein, there shall be no modification of this Consent Decree without written agreement of the parties. There shall be no material modification of this Consent Decree without the written agreement of the parties and by Order of the Court.

87. **Continuing Jurisdiction.** The Court retains jurisdiction of this case after entry of this Consent Decree to enforce compliance with the terms and conditions of this Consent Decree and to take any action necessary or appropriate for its interpretation, construction, execution, or modification. During the term of this Consent Decree, any party may apply to the Court for any relief necessary to construe or effectuate this Consent Decree.

**XI. TERMINATION**

88. Prior to complete termination of the requirements of this Consent Decree, any party may, upon motion to the Court, seek to terminate specific provisions of this Consent Decree. This Consent Decree shall be subject to complete termination upon motion by any party after Cargill satisfies all requirements of this Consent Decree. At such time, if Cargill believes that it is in compliance with the requirements of this Consent Decree, and has paid the civil penalty and any stipulated penalties required by this Consent Decree, then Cargill shall so certify to the Plaintiff and the appropriate Plaintiff-Intervenors, and unless the Plaintiff and the appropriate Plaintiff-Intervenors object in writing with specific reasons within sixty (60) days of receipt of the certification, the Court shall order that this Consent Decree be terminated on Cargill's motion. If the Plaintiff or Plaintiff-Intervenors object to Cargill's certification, then the matter shall be submitted to the Court for resolution under Part IX ("Dispute Resolution") of this Consent Decree. Paragraphs 39 and 78 shall survive the termination of the Consent Decree.
So entered in accordance with the foregoing this ________ day of ________, 2005.

United States District Court Judge
District of Minnesota
FOR PLAINTIFF, THE UNITED STATES OF AMERICA:

KELLY A. JOHNSON  
Acting Assistant Attorney General  
Environment and Natural Resources Division  
U.S. Department of Justice

DIANNE SHAWLEY  
Senior Counsel  
Environmental Enforcement Section  
U.S. Department of Justice  
P.O. Box 7611  
Washington, D.C. 20044-7611  
(202) 514-0096

THOMAS B. HEFFELFINGER  
United States Attorney  
District of Minnesota  
600 U.S. Courthouse  
300 South Fourth Street  
Minneapolis, MN 55415

By:  
FRED SIEKERT  
Assistant United States Attorney  
District of Minnesota
United States et al. v. Cargill, Inc.

For Headquarters US EPA

[Signature]
THOMAS V. SKINNER
Acting Assistant Administrator
Office of Enforcement and Compliance Assurance
1200 Pennsylvania Ave, N.W.
Washington, D.C. 20460

8/10/05 DATE
FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY:

[Signature]

Bharat Mathur  
Acting Regional Administrator  
U.S. Environmental Protection Agency, Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

Date 7-27-05
FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY:

[Signature]

Richard E. Greene
Regional Administrator
U.S. Environmental Protection Agency, Region VI
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202

Date 07-22-05
FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY:

J. J. Palmer, Jr.
Regional Administrator
U.S. Environmental Protection Agency, Region IV
Sam Nunn Atlanta Federal Center
61 Forsyth Street SW
Atlanta, Georgia 30303-3104

Date AUG - 1 2005
FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY:

Robert E. Roberts
Regional Administrator
US EPA Region 8
999 18th Street Suite 300
Denver, CO 80202-2466

Date: JUL 21 2005
United States et al v. Cargill, Incorporated

FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY:

James B. Gulliford  
Regional Administrator  
U.S. Environmental Protection Agency, Region 7  
901 N. 5th St.  
Kansas City, Kansas  66101

Martha R. Steincamp  
Regional Counsel  
U.S. Environmental Protection Agency, Region 7  
901 N. 5th St.  
Kansas City, Kansas  66101
FOR THE PLAINTIFF-INTERVENOR, THE STATE OF ALABAMA

Name  
Title  
Address  

Date  

CHIEF AIR DIVISION  
ALA. DEPT. OF ENV. MGMT.  
MONTGOMERY, AL.  

Ronald W. Gore  

8-1-05
FOR THE PLAINTIFF-INTERVENOR, THE STATE OF ILLINOIS

FOR THE STATE OF ILLINOIS
PEOPLE OF THE STATE OF ILLINOIS ex rel.

LISA MADIGAN,
Attorney General of the State of Illinois

MATTHEW J. DUNN, Chief
Environmental Enforcement/Asbestos Litigation Division

BY: ______________________ DATE: __8/08/05__
THOMAS DAVIS, Chief
Environmental Bureau
Assistant Attorney General

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

BY: ______________________ DATE: __8/16/05__
ROBERT A. MESSINA
Chief Legal Counsel

57
FOR THE PLAINTIFF-INTERVENOR, THE STATE OF INDIANA

Date: JULY 25, 2005

THOMAS W. EASTERLY
Commissioner
Indiana Department of Environmental Management

Approved as to form and legality:

STEVE CARTER
Indiana Attorney General

Date: AUGUST 5, 2005

CHARLES J. TODD
Chief Operating Officer
Office of the Attorney General
Indiana Government Center South
5th Floor
302 West Washington Street
Indianapolis, IN 46204
FOR THE PLAINTIFF-INTERVENOR,
STATE OF IOWA

THOMAS J. MILLER
Attorney General of Iowa

Date 7/27/05

DAVID L. DORFF
Assistant Attorney General
Environmental Law Division
Lucas State Office Bldg.
321 E. 12th St., Room 018
Des Moines, IA 50319
Phone: (515) 281-5351
Fax: (515) 242-6072
E-mail: ddorff@ag.state.ia.us
FOR PLAINTIFF-INTERVERNOR, THE STATE OF MISSOURI

DANIEL R. SCHUETTE  
Interim Division Director  
Air and Land Protection Division  
Missouri Department of Natural Resources  
Jefferson State Office Building, 12th Floor  
205 Jefferson Street  
P.O. Box 176  
Jefferson City, Missouri 65102-0176  

Date: 6/1/05

TIMOTHY P. DUGGAN  
Assistant Attorney General  
Environmental Protection Division  
Broadway State Office Building, 8th Floor  
221 W. High Street  
P.O. Box 899  
Jefferson City, MO 65102-0899  

Date: 7/29/05
FOR PLAINTIFF-INTERVENOR, THE STATE OF NEBRASKA:

By: JON C. BRUNING
   Attorney General

By: Jodi M. Fenner
   Assistant Attorney General
   2115 State Capitol Building
   Lincoln, NE 68509-8920
   (402) 471-2682

Date: [Signature]

Signature page: USA et al v. Cargill, Incorporated, U.S. District Court, District of Minnesota
FOR THE PLAINTIFF-INTERVENOR, THE STATE OF NORTH CAROLINA

[Signature]

B. Keith Overcash, P.E.
Director, Division of Air Quality
1641 Mail Service Center
Raleigh, North Carolina 27699-1641

Date 8/2/05
FOR THE PLAINTIFF-INTERVENOR, THE STATE OF OHIO

JIM PETRO
ATTORNEY GENERAL OF OHIO

[Signature]
MARGARET A. MALONE
Assistant Attorney General
Environmental Enforcement Section
30 East Broad Street, 25th Floor
Columbus, Ohio 42315-3400

Date: 8/8/05

FOR THE COMBINED HEALTH DISTRICT OF MONTGOMERY COUNTY, OHIO
REGIONAL AIR POLLUTION CONTROL AGENCY

[Signature]
JOHN A. PAUL, RAPCA Supervisor
Duly Authorized Agent for the Health Commissioner
RAPCA
117 South Main Street
Dayton, Ohio 45422

Date: 8/8/05
FOR THE PLAINTIFF-INTERVENOR, THE TENNESSEE COUNTY OF SHELBY AND CITY OF MEMPHIS

YVONNE S. MADLOCK
Director
Memphis and Shelby County Health Department
814 Jefferson Avenue
Memphis, Tennessee 38105

Date 8/6/05
FOR THE PLAINTIFF-INTERVENOR, THE STATE OF NORTH DAKOTA

Date 7-25-05

Terry L. Dwelle, MD, MPHTM
State Health Officer
State of North Dakota
600 E. Boulevard Avenue
2nd Floor-Judicial Wing
Bismarck, ND 58505-0200
Telephone 701.328.2372
Facsimile 701.328.4727
United States, et al. v. Cargill Incorporated

For the County of Linn, Iowa:

JEFFREY L. CLARK
Assistant Linn County Attorney

[Signature]

Jeffrey L. Clark
Attorney in Charge
Assistant Linn County Attorney
Linn County Courthouse
51 3rd Ave. Bridge
Cedar Rapids, Iowa 52401
Telephone: (319) 892-6340
Facsimile: (319) 892-6389
Email: jeff.clark@linncounty.org

7/22/05
Date
FOR THE IOWA COUNTY OF POLK

Michael B. O'Meara  PK0013710
Assistant Polk County Attorney
111 Court Ave., Rm. 340
Des Moines, Iowa 50309
Telephone: (515) 286-3341
Fax:     (515) 286-3314
Email: momeara@attorney.co.polk.ia.us

Date: 7/25/05
FOR DEFENDANT, CARGILL, INCORPORATED

Ronald L. Christenson
Corporate Vice President, Chief Technology Officer
Cargill, Incorporated
15615 McGinty Road West
Wayzata, Minnesota  55391-2398

Date  Aug 02, 2005

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List of Appendices

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Appendix F—Extraction VOC Emission Control Plan—Corn Germ and Sunflower Processing Plants
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Appendix N - Extraction Solvent Loss Recordkeeping Template
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Appendix A

List of Cargill Corn and Oilseed Processing Facilities Subject to the Consent Decree
Appendix A- List of Cargill Corn and Oilseed Processing Facilities Subject to the Consent Decree

I. Corn Processing Facilities

<table>
<thead>
<tr>
<th>Facility</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blair, Nebraska (note 1)</td>
<td>650 Industrial Road</td>
</tr>
<tr>
<td></td>
<td>Blair, NE 68008</td>
</tr>
<tr>
<td>Cedar Rapids, Iowa</td>
<td>1710 16th Street S.E.</td>
</tr>
<tr>
<td></td>
<td>Cedar Rapids, IA 52401</td>
</tr>
<tr>
<td>Dayton, Ohio</td>
<td>3201 Needmore Road</td>
</tr>
<tr>
<td></td>
<td>Dayton, OH 45414-4321</td>
</tr>
<tr>
<td>Decatur, Alabama</td>
<td>1030 State Docks Road</td>
</tr>
<tr>
<td></td>
<td>Decatur, AL 35601-7538</td>
</tr>
<tr>
<td>Dimmitt, Texas (note 2)</td>
<td>700 East Jones Street</td>
</tr>
<tr>
<td></td>
<td>Dimmitt, TX 79027</td>
</tr>
<tr>
<td>Eddyville, Iowa</td>
<td>1 Cargill Drive</td>
</tr>
<tr>
<td></td>
<td>Eddyville, IA 52553-5000</td>
</tr>
<tr>
<td>Hammond, Indiana</td>
<td>1100 Indianapolis Blvd.</td>
</tr>
<tr>
<td></td>
<td>Hammond, IN 46320</td>
</tr>
<tr>
<td>Memphis, Tennessee</td>
<td>2330 Buoy Street</td>
</tr>
<tr>
<td></td>
<td>Memphis, TN 38113-1502</td>
</tr>
<tr>
<td>Wahpeton, North Dakota</td>
<td>18049 County Road 8E</td>
</tr>
<tr>
<td></td>
<td>Wahpeton, ND 58075</td>
</tr>
</tbody>
</table>

(1) The Blair, NE facility includes all sources and operations that have been permitted as part of the wet corn mill facility (including the ethanol facility). Facilities at Blair, NE that are now, or were in the past, joint ventures with Cargill are not subject to the Consent Decree.

(2) Cargill shall notify the Plaintiff and Appropriate Plaintiff-Intervenor of the re-start of the Dimmitt, TX facility in the first semi-annual report filed pursuant to Paragraph 36 after the re-start of the facility.

II. Oilseed Processing Facilities

<table>
<thead>
<tr>
<th>Facility</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cedar Rapids East, Iowa</td>
<td>411 6th Street Northeast</td>
</tr>
<tr>
<td></td>
<td>East Cedar Rapids, IA 52402</td>
</tr>
<tr>
<td>Des Moines, Iowa</td>
<td>3030 East Granger Avenue</td>
</tr>
<tr>
<td></td>
<td>Des Moines, IA 50306</td>
</tr>
<tr>
<td>Fayetteville, North Carolina</td>
<td>1754 River Road</td>
</tr>
<tr>
<td></td>
<td>Fayetteville, NC 28301</td>
</tr>
<tr>
<td>Gainesville, Georgia</td>
<td>862 West Ridge Road</td>
</tr>
<tr>
<td></td>
<td>Gainesville, GA 30501</td>
</tr>
<tr>
<td>City, State</td>
<td>Address</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>Guntersville, Alabama</td>
<td>2930 Guntersville Park Drive</td>
</tr>
<tr>
<td></td>
<td>Guntersville, AL 35976</td>
</tr>
<tr>
<td>Iowa Falls, Iowa</td>
<td>602 Industrial Road</td>
</tr>
<tr>
<td></td>
<td>Iowa Falls, IA 50126</td>
</tr>
<tr>
<td>Kansas City, Missouri</td>
<td>2334 Rochester Avenue</td>
</tr>
<tr>
<td></td>
<td>Kansas City, MO 64120</td>
</tr>
<tr>
<td>Raleigh, North Carolina</td>
<td>1400 South Blount Street</td>
</tr>
<tr>
<td></td>
<td>Raleigh, NC 27603-2506</td>
</tr>
<tr>
<td>Sidney, Ohio</td>
<td>2400 Industrial Drive</td>
</tr>
<tr>
<td></td>
<td>Sidney, OH 45365</td>
</tr>
<tr>
<td>Sioux City, Iowa</td>
<td>11th &amp; Clark Streets</td>
</tr>
<tr>
<td></td>
<td>Sioux City, IA 51101</td>
</tr>
<tr>
<td>Wichita, Kansas</td>
<td>1425 North Mosley</td>
</tr>
<tr>
<td></td>
<td>Wichita, KS 67314</td>
</tr>
<tr>
<td>West Fargo, North Dakota</td>
<td>250 7th Avenue NE</td>
</tr>
<tr>
<td></td>
<td>West Fargo, ND 58078</td>
</tr>
<tr>
<td>Cedar Rapids West, Iowa</td>
<td>1110 12th Avenue SW</td>
</tr>
<tr>
<td></td>
<td>Cedar Rapids IA 52404</td>
</tr>
<tr>
<td>Lafayette, Indiana</td>
<td>1503 Wabash Avenue</td>
</tr>
<tr>
<td></td>
<td>Lafayette, IN 47905</td>
</tr>
<tr>
<td>Bloomington, Illinois</td>
<td>115 South Euclid</td>
</tr>
<tr>
<td></td>
<td>Bloomington, IL 61702</td>
</tr>
</tbody>
</table>
Appendix B

Boiler $SO_2$ Emission Control Plan
## Appendix B - Cargill Boiler SO2 Emission Control Plan

<table>
<thead>
<tr>
<th>Facility</th>
<th>Emission Unit Description and Number</th>
<th>Heat Input MMBTU</th>
<th>Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cedar Rapids</td>
<td>PC Boiler - 72-CB (2)</td>
<td>240.5</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
<tr>
<td>Dayton</td>
<td>PC Boiler - B004</td>
<td>567</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
<tr>
<td>Decatur</td>
<td>Stoker Boiler - S407 (2)</td>
<td>179.74</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Stoker Boiler - 1.001</td>
<td>282.1</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Stoker Boiler - 1.002</td>
<td>282.1</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Stoker Boiler - 1.003</td>
<td>282.1</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
<tr>
<td>Fayetteville</td>
<td>Stoker Boiler - ES22</td>
<td>129</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
<tr>
<td>Gainesville</td>
<td>Stoker Boiler - B001</td>
<td>145</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
<tr>
<td>Hammond (1)</td>
<td>Blr No.6-Gas Tube &amp; Tile - 1003U</td>
<td>200</td>
<td>N/A</td>
</tr>
<tr>
<td>Hammond (1)</td>
<td>Blr No.7-Gas Tube &amp; Tile - 1004U</td>
<td>120</td>
<td>Retire</td>
</tr>
<tr>
<td>Hammond (1)</td>
<td>Blr No.8-Gas Tube &amp; Tile - 1005U</td>
<td>120</td>
<td>N/A</td>
</tr>
<tr>
<td>Hammond (1)</td>
<td>Blr No.10-Gas Tube &amp; Tile - 1006U</td>
<td>120</td>
<td>N/A</td>
</tr>
<tr>
<td>Memphis</td>
<td>Stoker Boiler - B001</td>
<td>247</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
<tr>
<td>Memphis</td>
<td>PC Boiler - B301 (2)</td>
<td>247</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
<tr>
<td>Sidney</td>
<td>Stoker Boiler - B001</td>
<td>54.34 (derated to 35.02)</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
<tr>
<td>Sidney</td>
<td>Stoker Boiler - B002</td>
<td>54.34 (derated to 25.4)</td>
<td>CEMS - 12 month rolling sum</td>
</tr>
</tbody>
</table>

**Comments:**

CEMS monitoring shall be in accordance with 40 C.F.R. Part 60 and compliance with 40 C.F.R. Part 60 shall be deemed compliance with this Consent Decree.

Coal analysis will be conducted using at least one composite sample a month.

**Notes:**

1. The Hammond boilers No. 6 fuel oil capability is being eliminated as part of the Boiler SO2 Emission Control Plan

2. Cargill shall demonstrate that the individual facility permit limits comply with the combined SO2 capacity weighted average of 1.2 lb/MMBtu for the Cedar Rapids (PC Boiler - 72-CB), Memphis (PC Boiler - B301) and Decatur (Stoker Boiler - S407) coal boilers pursuant to paragraph 16 of this Consent Decree using the following compliance demonstration formula:

\[
X \cdot (240.5/667.5) + Y \cdot (180/667.5) + Z \cdot (247/667.5) < 1.2 \text{ lb/ MMBtu}
\]

- CR heat input capacity = 240.5 lb/ MMBtu
- DE heat input capacity = 180 lb/ MMBtu
- ME PC heat input capacity = 247 lb/ MMBtu
- Total CR, DE, ME PC heat input capacity = 667.5 lb/ MMBtu
- X = CR SO2 lb/MMBtu emission rate under new SO2 limit
- Y = DE SO2 lb/MMBtu emission rate under new SO2 limit
- Z = ME PC SO2 lb/MMBtu emission rate under new SO2 limit
Appendix C

Boiler CO Emission Control Plan
Appendix C—Boiler CO Emission Control Plan

Cargill proposes installation of a staged combustion over fire air system as a CO emissions reduction and combustion optimization project for the Eddyville coal boilers (EU 1.001, 1.002 and 1.039). The project involves adding to the existing overfire air turbulence system including: (1) replacement of the existing overfire air fan with a new higher capacity fan; (2) addition of overfire air nozzles to each of the front and rear boiler walls; and (3) replacement of the headers and nozzles with a higher capacity design. The project also involves engineering and installation of equipment to modify the existing undergrate flue gas recirculation system to promote even distribution of the flue gas across the width of the existing undergrate air ductwork. Cargill also will engineer and install equipment for injecting flue gas above the grate surface. In addition, Cargill will undertake and complete additional boiler efficiency work that may include superheater and economizer repairs or replacement. The project is estimated to cost approximately $8 million. The boilers are currently subject to BACT limits of 1100 lbs of CO per hour per boiler or 3.899 lbs CO/MMBtu heat input. Annual allowable CO emissions are presently 14,454 tons per year. Detroit Stoker Company has provided a guarantee that 12-month rolling average CO emissions from these units will be capable of meeting the proposed limit of 4,374 tons per year based on a 12-month rolling sum based on a flue gas outlet of O2 of 4% wet basis burning powder river basin coal. CO emissions from these units will be measured by a continuous emissions monitor.
Appendix D

Boiler NO\textsubscript{x} Emission Control Plan
## Appendix D - Cargill Boiler NOx Emission Control Plan

<table>
<thead>
<tr>
<th>Boiler Type</th>
<th>Boiler Number</th>
<th>Emission Unit Description and Number</th>
<th>MMBTU</th>
<th>Control Plan</th>
<th>Emission Limitation</th>
<th>Notes</th>
<th>Schedule/Year</th>
<th>urrences</th>
<th>Occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blair</td>
<td>Package Boiler - 20A</td>
<td>LNB, FGR</td>
<td>198</td>
<td>LNB, FGR</td>
<td>0.07 lb/mmmbtu - 30 day rolling average</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Blair</td>
<td>Package Boiler - 20B</td>
<td>LNB, FGR</td>
<td>198</td>
<td>LNB, FGR</td>
<td>0.07 lb/mmmbtu - 30 day rolling average</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Blair</td>
<td>Package Boiler - 20C</td>
<td>LNB, FGR</td>
<td>198</td>
<td>LNB, FGR</td>
<td>0.07 lb/mmmbtu - 30 day rolling average</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>PC Boiler - 72-G</td>
<td>LNB, FGR</td>
<td>240.6</td>
<td>LNB, FGR</td>
<td>0.05 lb/mmmbtu - 30 day rolling average</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Package Boiler - 101</td>
<td>LNB, FGR</td>
<td>276</td>
<td>LNB, FGR</td>
<td>37.8 ton per 12 month rolling average</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Dayton</td>
<td>PC Boiler - BO04</td>
<td>LNB, OFA, COMPLY w/NOX SIP PLAN</td>
<td>567</td>
<td>LNB, OFA</td>
<td>0.06 lb/mmmbtu - 30 day rolling average; 745 ton per 12 month rolling sum</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Dayton</td>
<td>Package Boiler - BO05</td>
<td>Retire</td>
<td>199.9</td>
<td>Retire</td>
<td>N/A</td>
<td>N/A</td>
<td>(N/A)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Decatur</td>
<td>Stoker Boiler - BO07</td>
<td>LNB, FGR, REMOVE CURRENT FUEL LIMIT</td>
<td>179.74</td>
<td>LNB, FGR</td>
<td>0.05 lb/mmmbtu (NOTE 1) - 30 day rolling average</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Decatur</td>
<td>Package Boiler - 5411</td>
<td>Back Up Combustion</td>
<td>67.6</td>
<td>Back Up Combustion</td>
<td>1800 hrs/12 month rolling period</td>
<td>Recordkeeping</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Decatur</td>
<td>Package Boiler - 5412</td>
<td>Back Up Operation</td>
<td>122.1</td>
<td>Back Up Operation</td>
<td>1800 hrs/12 month rolling period</td>
<td>Recordkeeping</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Omnit</td>
<td>Package Boiler - 5406</td>
<td>LNB</td>
<td>98.6</td>
<td>LNB</td>
<td>0.01 lb/mmmbtu</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Omnit</td>
<td>Package Boiler - 5407</td>
<td>LNB</td>
<td>135.6</td>
<td>LNB</td>
<td>0.01 lb/mmmbtu</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Stoker Boiler - 1007</td>
<td>FGR, COMBINED LIMIT</td>
<td>251.2</td>
<td>FGR, COMBINED LIMIT</td>
<td>212.1 lb/hr - 30 day rolling average (NOTE 2)</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Stoker Boiler - 1008</td>
<td>FGR, COMBINED LIMIT</td>
<td>282.1</td>
<td>FGR, COMBINED LIMIT</td>
<td>212.1 lb/hr - 30 day rolling average (NOTE 2)</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Stoker Boiler - 1009</td>
<td>FGR, COMBINED LIMIT</td>
<td>282.1</td>
<td>FGR, COMBINED LIMIT</td>
<td>212.1 lb/hr - 30 day rolling average (NOTE 2)</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Package Boiler - 57</td>
<td>FGR, COMBINED LIMIT</td>
<td>255.1</td>
<td>FGR, COMBINED LIMIT</td>
<td>0.06 lb/mmmbtu</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Package Boiler - 66</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>182.1</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>212.1 lb/hr - 30 day rolling average (NOTE 2)</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Stoker Boiler - 6522</td>
<td>GOOD COMBUSTION</td>
<td>128</td>
<td>GOOD COMBUSTION</td>
<td>0.01 lb/mmmbtu</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Galenaive</td>
<td>Stoker Boiler - BO01</td>
<td>Retire</td>
<td>144</td>
<td>Retire</td>
<td>N/A</td>
<td>N/A</td>
<td>(N/A)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hammond</td>
<td>Package Boiler - 1001U</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>160</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>0.06 lb/mmmbtu</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hammond</td>
<td>Package Boiler - 1002U</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>200</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>0.06 lb/mmmbtu</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hammond</td>
<td>Gas Tube &amp; Tile - 1003U</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>120</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>0.28 lb/mmmbtu</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hammond</td>
<td>Gas Tube &amp; Tile - 1004U</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>120</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>0.28 lb/mmmbtu</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hammond</td>
<td>Gas Tube &amp; Tile - 1005U</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>120</td>
<td>LNB, FGR, COMBINED LIMIT</td>
<td>0.28 lb/mmmbtu</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Memphis</td>
<td>Stoker Boiler - 6301</td>
<td>FGR, COMBINED LIMIT</td>
<td>247</td>
<td>FGR, COMBINED LIMIT</td>
<td>0.06 lb/mmmbtu</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Memphis</td>
<td>PC Boiler - 8301</td>
<td>FGR, COMBINED LIMIT</td>
<td>247</td>
<td>FGR, COMBINED LIMIT</td>
<td>1020 hrs/12 month rolling period</td>
<td>Recordkeeping</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Memphis</td>
<td>Package Boiler - 8500</td>
<td>FGR, COMBINED LIMIT</td>
<td>312</td>
<td>FGR, COMBINED LIMIT</td>
<td>1020 hrs/12 month rolling period</td>
<td>Recordkeeping</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sioux City</td>
<td>Package Boiler - 17</td>
<td>LNB, FGR</td>
<td>97</td>
<td>LNB, FGR</td>
<td>0.09 lb/mmmbtu - 30 day rolling average</td>
<td>CEMS</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### Comments:
To permit the installation of boiler NOx control, Cargill may bring on site and use temporary boilers, provided boilers are gas fired and fired for no longer than 30 days per an installation.

CEMS monitoring shall be in accordance with 40 CFR Part 60 and compliance with 40 CFR Part 60 shall be deemed compliance with this Consent Decree.

### Notes:
1. To implement the retiring of B005 and the acceptance of 0.06 lb/mmmbtu on B006, the natural gas fuel usage limits on B006 will be removed from Ohio Permit to Install No. 08-3215. Cargill will comply with the 0.06 lb/mmmbtu emission limitation when using natural gas or fuel oil. Within twenty-four months of the date of lodging of this consent decree, Cargill will submit an Ohio permit to install application to PA/PICA for the retirement of B005 and the removal of the natural gas usage restrictions for B006.

2. Total NOx from Stoker Boilers 1.001, 1.002, 1.009 and package boilers 84 and 86 is limited to 212.1 lb/hr - 30 day rolling average.

3. To implement the NOx cap, coal volume limits and ash limits on 8001 and 8003 are removed.

4. All controls required to meet the total NOx allowable shall be installed by the end of the year from entry of the Consent Decree. Compliance with the 12-month rolling sum shall be demonstrated beginning 12 months after the third year from entry of the Consent Decree.
Appendix E

Extraction VOC Emission Control Plan—Soybean Processing Plants
Appendix E—Extraction VOC Emission Control Plan—Soybean Processing Plants

<table>
<thead>
<tr>
<th>Facility</th>
<th>Design Capacity TPY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cedar Rapids East, Iowa</td>
<td>1,007,400</td>
</tr>
<tr>
<td>Des Moines, Iowa</td>
<td>766,500</td>
</tr>
<tr>
<td>Fayetteville, North Carolina</td>
<td>1,095,372</td>
</tr>
<tr>
<td>Gainesville, Georgia</td>
<td>990,000</td>
</tr>
<tr>
<td>Guntersville, Alabama</td>
<td>1,042,440</td>
</tr>
<tr>
<td>Iowa Falls, Iowa</td>
<td>1,040,250</td>
</tr>
<tr>
<td>Kansas City, Missouri</td>
<td>993,000</td>
</tr>
<tr>
<td>Raleigh, North Carolina</td>
<td>930,750</td>
</tr>
<tr>
<td>Sidney, Ohio</td>
<td>945,000</td>
</tr>
<tr>
<td>Sioux City, Iowa</td>
<td>1,642,500</td>
</tr>
<tr>
<td>Wichita, Kansas</td>
<td>777,000</td>
</tr>
</tbody>
</table>

**Total Solvent Loss Capacity Weighted Average:**

Cargill shall demonstrate compliance with the Total Solvent Loss Capacity Weighted Average using the following compliance demonstration formula:

\[ \frac{\sum(\text{Seed}_i \times \text{SLR}_i)}{\sum(\text{Seed}_i)} \leq 0.175 \text{ gal/ton} \]

Where:  
\( \text{Seed}_i \) = Design capacity of oilseed plant \( i \); and  
\( \text{SLR}_i \) = Final SLR Limit for oilseed plant \( i \).
Appendix F

Extraction VOC Emission Control Plan—Corn Germ and Sunflower Processing Plants
Appendix F—Extraction VOC Emission Control Plan—Corn Germ and Sunflower Processing Plants

<table>
<thead>
<tr>
<th>Facility</th>
<th>Design Capacity TPY</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Fargo, North Dakota</td>
<td>735,840</td>
</tr>
<tr>
<td>Eddyville, Iowa</td>
<td>547,500</td>
</tr>
<tr>
<td>Memphis, Tennessee</td>
<td>547,500</td>
</tr>
<tr>
<td>Blair, Nebraska</td>
<td>438,000</td>
</tr>
</tbody>
</table>

Total Solvent Loss Capacity Weighted Average:

Cargill shall demonstrate compliance with the Total Solvent Loss Capacity Weighted Average using the following compliance demonstration formula:

\[
\text{Corn Germ / Sunflower} = \frac{\sum(\text{Seed}_i \times \text{SLR}_i)}{\sum(\text{Seed}_i)} \leq 0.30 \text{ gal/ton}
\]

Where: \( \text{Seed}_i \) = Design capacity of oilseed plant \( i \); and \( \text{SLR}_i \) = Final SLR Limit for oilseed plant \( i \).
Appendix G

Extraction VOC Emission Control Plan – Specialty Plants
Appendix G
Extraction VOC Emission Control Plan – Specialty Plants

<table>
<thead>
<tr>
<th>Location</th>
<th>Specialty Solvent Loss Factor</th>
<th>Conventional Solvent Loss Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lafayette, Indiana</td>
<td>1.0 gal/ton</td>
<td>0.175 gal/ton</td>
</tr>
<tr>
<td>Cedar Rapids West, Iowa</td>
<td>0.9 gal/ton</td>
<td>0.175 gal/ton</td>
</tr>
<tr>
<td>Bloomington, Illinois</td>
<td>0.9 gal/ton</td>
<td>0.175 gal/ton</td>
</tr>
</tbody>
</table>

**Compliance Demonstration Calculation**

\[
\text{Compliance Ratio} = \frac{\text{Actual Solvent Loss}}{\sum_{i=1}^{n} ((Oilseed)_i \times (SLF)_i)}
\]

Actual Solvent Loss = Gallons of actual solvent loss during previous 12 operating months

Oilseed = Tons of each oilseed type “i” (Specialty and Conventional) processed during the previous 12 operating months

SLF = The corresponding solvent loss ratio limit (gal/ton) for oilseed “i” listed in Table

Compliance is to be determined on a location specific basis. If the compliance ratio is less than or equal to 1, the source was in compliance.
Appendix H

Corn Processing VOC Emission Control Plan
<table>
<thead>
<tr>
<th>Facility</th>
<th>Processing Equipment</th>
<th>Emission</th>
<th>Method</th>
<th>Conventional Operating Range</th>
<th>Consent Decree Monitoring Frequency</th>
<th>Actual Operating Emission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blair</td>
<td>Carbon Furnace - Fract 86</td>
<td>Zero headspace</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Blair</td>
<td>Glutin Flash Drying - 8</td>
<td>Thermal oxidizer</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Blair</td>
<td>Steam/water Scrubber (S)</td>
<td>Scrubber</td>
<td>95% control or &lt;= 20 ppm or alternate limit (1)</td>
<td>scrubbing flow rate, phi &amp; pressure drop</td>
<td>TBD (scrubbing flow rate - 3 hour average; phi &amp; pressure drop - once per day)</td>
<td>Scrubbing flow rate - continuously; phi and pressure drop - once per day 3</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Carbon Furnace - Corn Syrup (EU-20)</td>
<td>Zero headspace</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Feed Drying - Rotary (EU-72-FD)</td>
<td>Thermal oxidizer</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Feed Drying - STD (EU-72-FD)</td>
<td>Thermal oxidizer</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Germ Drying - Fluid Bed (EU-113)</td>
<td>Thermal oxidizer</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Germ Drying - Fluid Bed (EU-20)</td>
<td>Thermal oxidizer</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Glutin Drying - STD (EU-20)</td>
<td>Thermal oxidizer</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Glutin Drying - STD (EU-20)</td>
<td>Thermal oxidizer</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Steam/water Scrubber (EU-41)</td>
<td>Scrubber</td>
<td>95% control or &lt;= 20 ppm or alternate limit (1)</td>
<td>scrubbing flow rate, phi &amp; pressure drop</td>
<td>TBD (scrubbing flow rate - 3 hour average; phi &amp; pressure drop - once per day)</td>
<td>Scrubbing flow rate - continuously; phi and pressure drop - once per day 3</td>
</tr>
<tr>
<td>Dayton</td>
<td>Carbon Furnace - Corn Syrup (PM-87)</td>
<td>Zero headspace</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Dayton</td>
<td>Carbon Furnace - Fract 88 (EU-432)</td>
<td>Zero headspace</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Dayton</td>
<td>Glutin Drying - Flash (EU-57)</td>
<td>Thermal oxidizer</td>
<td>95% control (3)</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Dayton</td>
<td>Germ Drying - STD (EU-5031)</td>
<td>Thermal oxidizer</td>
<td>95% control (3)</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Dayton</td>
<td>Germ Drying - STD (EU-5052)</td>
<td>Thermal oxidizer</td>
<td>95% control (3)</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Dayton</td>
<td>Germ Drying - STD (EU-5088)</td>
<td>Thermal oxidizer</td>
<td>95% control (3)</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Dayton</td>
<td>Glutin Drying - Flash (EU-972)</td>
<td>Thermal oxidizer</td>
<td>95% control (3)</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Decatur</td>
<td>Carbon Furnace</td>
<td>Zero headspace</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Decatur</td>
<td>Carbon Furnace</td>
<td>Zero headspace</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Decatur</td>
<td>Feed Drying - Rotary</td>
<td>Thermal oxidizer</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Dimmit</td>
<td>Carbon Furnace - (8-204)</td>
<td>Zero headspace</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Edyville</td>
<td>Carbon Furnace - (37-300)</td>
<td>Zero headspace</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Edyville</td>
<td>Carbon Furnace - (37-600)</td>
<td>Zero headspace</td>
<td>95% control or &lt;= 10 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3</td>
</tr>
<tr>
<td>Edyville</td>
<td>Milhouse Scrubber (8-002)</td>
<td>Scrubber</td>
<td>95% control or &lt;= 20 ppm or alternate limit (1)</td>
<td>scrubbing flow rate, phi &amp; pressure drop</td>
<td>TBD (scrubbing flow rate - 3 hour average; phi &amp; pressure drop - once per day)</td>
<td>Scrubbing flow rate - continuously; phi and pressure drop - once per day 3</td>
</tr>
<tr>
<td>Edyville</td>
<td>Milhouse Scrubber (104-000)</td>
<td>Scrubber</td>
<td>95% control or &lt;= 20 ppm or alternate limit (1)</td>
<td>scrubbing flow rate, phi &amp; pressure drop</td>
<td>TBD (scrubbing flow rate - 3 hour average; phi &amp; pressure drop - once per day)</td>
<td>Scrubbing flow rate - continuously; phi and pressure drop - once per day 3</td>
</tr>
<tr>
<td>Edyville</td>
<td>Milhouse Scrubber (114-000)</td>
<td>Scrubber</td>
<td>95% control or &lt;= 20 ppm or alternate limit (1)</td>
<td>scrubbing flow rate, phi &amp; pressure drop</td>
<td>TBD (scrubbing flow rate - 3 hour average; phi &amp; pressure drop - once per day)</td>
<td>Scrubbing flow rate - continuously; phi and pressure drop - once per day 3</td>
</tr>
</tbody>
</table>
### Appendix H - Corn Processing VOC Emission Control Plan

<table>
<thead>
<tr>
<th>Plant</th>
<th>Equipment Type</th>
<th>Unit Number</th>
<th>Description</th>
<th>Operate</th>
<th>Control Method</th>
<th>Continuous Operating Time</th>
<th>Potential Operating Time</th>
<th>Potential Emissions</th>
<th>Source Category</th>
<th>Emission Limits (TBD)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hammond</td>
<td>Carbon Furnace - (10A-01-R)</td>
<td>Zero heater furnace</td>
<td>96% control or &lt;6 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5 (2)</td>
<td></td>
<td></td>
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<tr>
<td>Hammond</td>
<td>Feed Drying - Rotary - (12A-01-C)</td>
<td>Thermal oxidizer</td>
<td>TBD (Max 4)</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>6 (2)</td>
<td></td>
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<tr>
<td>Hammond</td>
<td>Germ Drying - Rotary - (21A-02-G)</td>
<td>Thermal oxidizer</td>
<td>TBD (Max 4)</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5 (2)</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Hammond</td>
<td>Germ Drying - Rotary - (5A-02-G)</td>
<td>Thermal oxidizer</td>
<td>TBD (Max 4)</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5 (2)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Memphis</td>
<td>Carbon Furnace - Cont Syrup - (6606)</td>
<td>Zero heater furnace</td>
<td>96% control or &lt;6 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
<td></td>
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<tr>
<td>Memphis</td>
<td>Carbon Furnace - Fruittree - (9002)</td>
<td>Zero heater furnace</td>
<td>96% control or &lt;6 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>Memphis</td>
<td>Carbon Furnace - Fruittree - (9006)</td>
<td>Zero heater furnace</td>
<td>96% control or &lt;6 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memphis</td>
<td>Gluten Drying - Flash - (4008B)</td>
<td>Thermal oxidizer</td>
<td>96% control or &lt;6 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memphis</td>
<td>Gluten Drying - Flash - (4011)</td>
<td>Thermal oxidizer</td>
<td>96% control or &lt;6 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Memphis</td>
<td>Germ Drying - STD - (4011)</td>
<td>Thermal oxidizer</td>
<td>96% control or &lt;6 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Memphis</td>
<td>Germ Drying - STD - (4011)</td>
<td>Thermal oxidizer</td>
<td>96% control or &lt;6 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Montpelier</td>
<td>Carbon Furnace - Fruittree - (REP4)</td>
<td>Zero heater furnace</td>
<td>96% control or &lt;6 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Comments:**
In addition, for units controlled by RTOs not designed for on-line regeneration (i.e., bake-out) and that are not preceded by a VKEP or equivalent device(s), the emission limitations do not apply to periods of off-line RTO regeneration not to exceed 30 unit operating hours per calendar year and individual on-line RTO regeneration periods not to exceed 12 unit operating hours. For RTOs servicing more than one unit, a unit operating hour is any hour in which one or more of the units is on-line. Off-line RTO regeneration while all associated units are shut down is not included in these operating limitations. Also, off-line RTO regeneration periods that can be completed during unutilized shutdown, or malfunction periods (i.e., periods not related to the need to perform an off-line RTO regeneration) are not included in these limitations (i.e., Cargill may perform "preventative" off-line RTO regeneration during periods when the RTO is off-line for other reasons such as the RTO is off-line due to maintenance or malfunction of upstream PM control equipment which require bypass of the RTO). Cargill may petition EPA and the appropriate state or local regulatory agency to adjust these operating limitations for a specific RTO. With respect to the Dayton, OH facility, all on-line regeneration (or bake-out) shall be conducted in accordance with OAC Rules 3745-19-06(A)(3) and 3745-19-06(B).

**All To Be Determined (TBD) values will be established through stack testing pursuant to Appendices M and O.**

**Notes:**

1. To the extent that this VOC performance test for this source demonstrates emissions above the 20 ppm and 96 percent VOC destruction efficiency emission limit noted above, within 90 days from the date of the performance test, Cargill shall submit a Supplemental VOC Emission Control Plan to the Plaintiffs and the Appropriate Plaintiffs intervenors that will establish a schedule to be completed within five years of lodging of this Consent Decree to demonstrate VOC emission reductions at the facility that are equivalent to or greater than the ton per year reduction necessary for the tested source to meet the criteria of either the 96 percent destruction or 20 ppm standard. Such reductions may be derived from either: (1) sources existing at the facility as of the date of lodging of this Consent Decree and not subject to additional VOC controls under this Appendix to the Consent Decree based on 2003 baseline VOC emissions (as adjusted, if necessary, to reflect changes to test methodology); or (2) for sources at the facility that are subject to VOC control under this Appendix to the Consent Decree, VOC emissions reductions in excess of the emission limits established for such sources. Such supplemental emission reductions will become an enforceable part of this Consent Decree upon approval by the Plaintiffs and Appropriate Plaintiffs intervenors.

2. Within five years from the date of lodging of this Consent Decree, Cargill shall submit the emission limits established pursuant to Paragraph 23 and this Appendix as an amendment to the Hammond, Indiana facility's RACT plan; IDEM shall incorporate the emission limits into the RACT plan.

3. Cargill shall demonstrate compliance with 96% control by complying with the Dayton, Ohio Corn Processing Ozone Gap Cap in Appendix J.

4. The overall control efficiency requirement for this unit shall be established through performance testing approved by IDEM and conducted in accordance with Appendix M. IDEM will establish the overall control efficiency requirement based on the level of efficiency demonstrated during this testing. The final control efficiency requirement will be established pursuant to Paragraph 34.
Appendix I

Integrated Feed/Bran Drying System VOC Emission Control Plan
## Appendix I - Integrated Feed/Bran Drying Systems VOC Emission Control Plan

<table>
<thead>
<tr>
<th>Facility</th>
<th>Emission Unit Detection and Number</th>
<th>Digital Device Detection</th>
<th>Parameter Monitored Frequency</th>
<th>Emission Unit Detection and Number</th>
<th>Digital Device Detection</th>
<th>Parameter Monitored Frequency</th>
<th>Scrubbers</th>
<th>Parameter Monitored Frequency</th>
<th>Pressure Drop ( \geq 6 \text{ in H2O} ) (3) ( \geq 8 ) (9)</th>
<th>Scrubbing Flow Rate ( \geq 850 \text{ gpm/600 gpm (2,4) } )</th>
<th>Parameter Monitored Frequency</th>
<th>Emission Unit Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dayton</td>
<td>Feed Dryer - STD - (P032)</td>
<td>Thermal Oxidizer</td>
<td>Temp + 1500 F (2)</td>
<td>Continuously</td>
<td>Brine Dryer - Rotary - (P045)</td>
<td>Pressure Drop ( \geq 6 \text{ in H2O} ) (3) ( \geq 8 ) (9)</td>
<td>Scrubbers</td>
<td>Continuously</td>
<td>Scrubbing Flow Rate ( \geq 850 \text{ gpm/600 gpm (2,4) } )</td>
<td>Continuously</td>
<td>TBO (6)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Feed Dryer - STD - (P033)</td>
<td></td>
<td></td>
<td></td>
<td>Brine Dryer - Rotary - (P058)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Brine Dryer - Rotary - (P037)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memphis</td>
<td>Feed Dryer - STD - (4003)</td>
<td>Thermal Oxidizer</td>
<td>Temp + 1500 F (2)</td>
<td>Continuously</td>
<td>Brine Dryer - Rotary - (4005)</td>
<td>Pressure Drop ( \geq 6 \text{ in H2O} ) (3) ( \geq 8 ) (9)</td>
<td>Scrubbers</td>
<td>Continuously</td>
<td>Scrubbing Flow Rate ( \geq 2000 \text{ gpm (2,3) } )</td>
<td>Continuously</td>
<td>TBO (1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Feed Dryer - STD - (4003)</td>
<td></td>
<td></td>
<td></td>
<td>Brine Dryer - Rotary - (4003)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Feed Dryer - STD - (4003)</td>
<td></td>
<td></td>
<td></td>
<td>Brine Dryer - Flash - (89-01-5)</td>
<td>Pressure Drop ( \geq 6 \text{ in H2O} ) ( \geq 8 )</td>
<td>Scrubbers</td>
<td>Once Each Day</td>
<td>Scrubbing Flow Rate ( \geq 400 \text{ gpm (2) } )</td>
<td>Once Each Day</td>
<td>TBO (1)</td>
<td></td>
</tr>
<tr>
<td>Hammond</td>
<td>Feed Dryer - Rotary - (89-03-G)</td>
<td>Thermal Oxidizer</td>
<td>Temp + TBO (2, 7)</td>
<td>Continuously</td>
<td>Brine Dryer - Flash - (89-01-5)</td>
<td>Pressure Drop ( \geq 4 \text{ in H2O} ) ( \geq 8 )</td>
<td>Scrubbers</td>
<td>Once Each Day</td>
<td>Scrubbing Flow Rate ( \geq 100 \text{ gpm (2) } )</td>
<td>Once Each Day</td>
<td>TBO (1)</td>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Feed Dryer - Rotary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bran Flash Dryer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Comments:

Thermal oxidizers at Dayton and Memphis facilities will be designed to meet a residence time of at least one second and a combustion temperature of 1500°F.

Prior to initial performance testing (as per Appendix M) final optimized scrubber parameters for \( \pm \) one unit of fixed parameters and scrubbing flow rate \( \pm \) 20 percent of listed parameters will be evaluated and established based on assessment of VOC outlet concentrations using EPA Reference Test Method 25A for continuous feedback and analysis. The optimized parameters, to the extent they are different from listed parameters, must be met as of the date of initial performance testing and, as of the date of initial performance testing, replace listed parameters and become an enforceable part of this Consent Decree.

Notes:

1. Within three years from lodging of this Consent Decree, Cargill shall undertake performance testing of the scrubber outlet of the integrated feed/bran drying system as per Appendix M to establish an emission limit for this system.
2. 3 hour average.
3. Operating parameters specified are for each scrubber.
4. \( \geq 850 \text{ gpm} \) applies to scrubber for P037 & P040 - \( \geq 600 \text{ gpm} \) applies to scrubber for P058.
5. Within five years from the date of lodging of this Consent Decree, Cargill shall adopt the emission limits established pursuant to Paragraph 24 and this Appendix as an amendment to the Hammond, Indiana facility's FACT plan; IDEM shall incorporate the emission limits into the FACT plan.
6. Within three years from lodging of this Consent Decree, Cargill shall conduct performance testing of the two existing scrubber outlet stacks of the integrated feed/bran drying system as per Appendix M to establish the allowable short-term VOC emission limit for this system. The allowable short-term VOC emission limit will be determined based upon the arithmetic average of the test runs. The measured VOC emission results shall be converted to pounds per hour and multiplied by a factor of 2.2, plus the standard deviation times 2.2 divided by the square root of the number of test runs. The number of test runs shall not be less than three. Emission measurements shall be performed according to U.S. EPA Reference Test Method 25A. In the event U.S. EPA promulgates a new VOC test method and RAPCA requests Cargill to use such method for purposes of demonstrating compliance with any allowable short-term VOC limits, Cargill shall, within 12 months of such request, conduct emissions testing and establish revised allowable VOC limits, which shall be based on data from the new test method plus the standard deviation times 2.2 divided by the square root of the number of test runs.
7. Feed Dryer (89-03-G) shall demonstrate compliance with a control efficiency requirement of \( \geq 85 \text{ %} \) control or \( \leq 10 \text{ ppm} \). The temperature limit for the thermal oxidizer shall equal the temperature at which the feed dryer demonstrates \( \geq 85 \text{ %} \) control or \( \leq 10 \text{ ppm} \).
Appendix J

Dayton Corn Processing
## Appendix J – Dayton, Ohio Corn Processing Ozone Cap

<table>
<thead>
<tr>
<th>Emission Unit Number and Description</th>
<th>Pollutant Included in Ozone Cap</th>
<th>Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Boiler (B004)</td>
<td>NOx</td>
<td>CEM(1)</td>
</tr>
<tr>
<td>Package Boiler (B006)</td>
<td>NOx</td>
<td>CEM(1)</td>
</tr>
<tr>
<td>Package Boiler (B005)</td>
<td>NOx</td>
<td>Retire</td>
</tr>
<tr>
<td>Gluten Drying-Flash (P057)</td>
<td>VOC</td>
<td>Performance Testing (2)(3)</td>
</tr>
<tr>
<td>Germ Drying-STD (P031)</td>
<td>VOC</td>
<td>Performance Testing (2)(3)</td>
</tr>
<tr>
<td>Germ Drying-STD (P052)</td>
<td>VOC</td>
<td>Performance Testing (2)(3)</td>
</tr>
<tr>
<td>Germ Drying-STD (P088)</td>
<td>VOC</td>
<td>Performance Testing (2)(3)</td>
</tr>
<tr>
<td>Carbon Furnace-Corn Syrup (P067)</td>
<td>VOC</td>
<td>Performance Testing (2)(3)</td>
</tr>
<tr>
<td>Carbon Furnace-Fructose (P582)</td>
<td>VOC</td>
<td>Performance Testing (2)(3)</td>
</tr>
<tr>
<td>Gluten Drying-Flash (P072)</td>
<td>VOC</td>
<td>Performance Testing (2)(3)</td>
</tr>
<tr>
<td>Feed Dryers-STD (P032, P033 &amp; P034)</td>
<td>VOC</td>
<td>Performance Testing (2)(3)</td>
</tr>
<tr>
<td>Bran Dryers-Rotary (P040, P058 &amp; P037)</td>
<td>VOC</td>
<td>Performance Testing (2)(3)</td>
</tr>
</tbody>
</table>

Comments:

The 12-month rolling sum total of 854 tons of NOx and VOC emissions from the sources and for the pollutants noted in column 2 above will be used to demonstrate compliance with the ozone cap of 854 tons of VOC and NOx per 12-month period as per paragraphs 25 and 30 of the Consent Decree. Compliance with the 12-month rolling sum ozone cap of 854 tons for the process source VOC and boiler NOx emission sources listed in Appendix J above shall be demonstrated during the first 11 months following the fifth year from lodging of the Consent Decree based on the following schedule of limits in tons per year:

<table>
<thead>
<tr>
<th>Month 1</th>
<th>Month 2</th>
<th>Month 3</th>
<th>Month 4</th>
<th>Month 5</th>
<th>Month 6</th>
<th>Month 7</th>
<th>Month 8</th>
<th>Month 9</th>
<th>Month 10</th>
<th>Month 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>142</td>
<td>284</td>
<td>356</td>
<td>427</td>
<td>498</td>
<td>567</td>
<td>641</td>
<td>711</td>
<td>749</td>
<td>785</td>
<td>822</td>
</tr>
</tbody>
</table>

In addition to the emissions testing and other requirements of this Appendix J, Cargill shall also comply with the emissions testing requirements set forth in Appendix M, including testing of emission units P032, P033, P034, P040, P058 and P037.

Notes:

(1) Within five years from lodging of the Consent Decree, NOx emissions will be measured by CEMs and recorded by a data acquisition system. Emissions concentrations recorded by the CEMs will be converted to mass emissions using the air volume as determined by the continuous flow monitor.
Appendix J – Dayton, Ohio Corn Processing Ozone Cap

(2) Within five years from lodging of the Consent Decree, annual VOC performance testing (once per 12-month period) will occur for the VOC sources identified above (P032, P033, P034, P040, P058, P037, P057, P031, P052, P088, P067, P582, & P072). All VOC performance testing will be conducted using U.S. EPA Reference Test Method 25A. All measured VOC results will be converted to a pound per hour basis, and multiplied by 2.2 in accordance with OAC Rule 3745-21-10(C)(7).

An emission factor for each VOC source based on pound per hour VOC emission rates as determined during the most recent testing will be divided by a corresponding process rate (bushels of ground corn for dryer sources and tons of carbon regenerated for carbon furnaces). The emission factor will be used to calculate the monthly sum of VOC emissions that will be combined with the monthly sum of NOx emissions from the NOx sources listed in this Appendix to determine compliance with the ozone cap. If a VOC emission unit identified above is modified within the definition of "modification" under OAC 3745-31-01(PPP), then Cargill will retest the VOC emission rate for such emission unit within 90 days from the modification. Cargill shall track compliance with the ozone cap through completion each month of the Ozone Cap Data Recording and Compliance Demonstration Template included in this Appendix.

(3) Within five years from lodging of the Consent Decree, allowable short-term (lb/hour) VOC emission limits will be established for the VOC emission units listed above (P032, P033, P034, P040, P058, P037, P057, P031, P052, P088, P067, P582, & P072). All VOC performance testing shall be conducted through the use of U.S. EPA Reference Test Method 25A. The allowable short-term VOC emission limits will be based on the average of the initial performance test runs. The measured data based upon U.S. EPA Reference Test Method 25A shall be converted to a pound per hour basis, and multiplied by a factor of 2.2, plus the standard deviation times 2.92 divided by the square root of the number of test runs. The number of test runs shall be not less than three. In the event a new VOC test method is promulgated by U.S. EPA, for purposes of demonstrating compliance with any allowable short-term VOC limits, Cargill shall, within 12-months of a request by RAPCA to use such new method, conduct emissions testing using the new method and establish revised allowable VOC limits based on the average of the measured test runs of that new methodology plus the standard deviation times 2.92 divided by the square root of the number of test runs. The number of test runs shall be not less than three. In the event the new promulgated U.S. EPA test method results in a more stringent allowable short-term VOC emissions limit for any of the VOC emission units identified in this Appendix J, Cargill shall demonstrate compliance with the new short-term limit within 24 months of the date of testing through use of the new promulgated U.S. EPA test method. Compliance demonstration with the ozone cap will not change in the event of promulgation of a new test method and always will be demonstrated using the test methodology specified in note 2 above.

(4) For emission inventory purposes, including payment of emission fees, Cargill shall use the emission factor specified in note 2, above. In the event a new VOC test method is promulgated by U.S. EPA, Cargill shall, within 12-months of a request by RAPCA to use such new method, conduct testing of the VOC units listed above using the new method and use the results of such new method for completion of subsequent emission inventory submittals.
# Appendix J – Dayton, Ohio Corn Processing Ozone Cap

## Ozone Cap Data Recording and Compliance Demonstration Template

<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Source (Units IDs)</th>
<th>Parameter monitored</th>
<th>Month throughput</th>
<th>Units</th>
<th>Emission factor</th>
<th>Units</th>
<th>Emissions (tons for month)</th>
<th>Data/Emissions Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>B004</td>
<td>PC Boiler (B004)</td>
<td>NO(_x)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CEM Data (Per Part 60)</td>
</tr>
<tr>
<td>B005</td>
<td>#3 Boiler (B005)</td>
<td>NO(_x)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>CEM Data (Per Part 60)</td>
</tr>
<tr>
<td>B006</td>
<td>#4 Boiler (B006)</td>
<td>NO(_x)</td>
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<td></td>
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<td></td>
<td>CEM Data (Per Part 60)</td>
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<tr>
<td>Total</td>
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</tbody>
</table>

Input directly from NO\(_x\) CEM*

<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Source</th>
<th>Parameter monitored</th>
<th>Month throughput</th>
<th>Units</th>
<th>Emission factor</th>
<th>Units</th>
<th>Emissions (tons for month)</th>
<th>Data/Emissions Source</th>
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</thead>
<tbody>
<tr>
<td>P057</td>
<td>Gluten/Germ Dryers</td>
<td>corn</td>
<td>bushels</td>
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<td></td>
<td></td>
<td></td>
<td>Stack Test</td>
</tr>
<tr>
<td>P067</td>
<td>Carbon Furnace - CS</td>
<td>carbon</td>
<td>tons</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stack Test</td>
</tr>
<tr>
<td>P072</td>
<td>Gluten Dryer</td>
<td>corn</td>
<td>bushels</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stack Test</td>
</tr>
<tr>
<td>P582</td>
<td>Carbon Furnace - FX</td>
<td>carbon</td>
<td>tons</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stack Test</td>
</tr>
<tr>
<td>**</td>
<td>Main Stack</td>
<td>corn</td>
<td>bushels</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stack Test</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### VOC

** CEM emission concentrations are converted to mass emissions by using the flow as determined by the continuous flow monitor.

** Main stack sources include: P032, P033, P034, P037, P040, P058

*** Emission factors will be based on most recent stack testing results. Individual unit emission factors and emissions (tons per month) will be recorded and 12-month rolling sum calculated for each month by the 15th of the following month.

| Total Monthly Emissions | 0.00 |
Appendix K

Corn Processing CO Emission Control Plan
## Appendix K - Corn Processing CO Emission Control Plan

<table>
<thead>
<tr>
<th>Facility</th>
<th>Emission Unit Description and Number</th>
<th>Control Device Description</th>
<th>Emission Limit</th>
<th>Parameter Monitored</th>
<th>Compliance Operating Range</th>
<th>Parameter Monitoring Frequency</th>
<th>Schedule (years from)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blair</td>
<td>Carbon Furnace - Fructose - (56)</td>
<td>Zero hearth furnace</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
</tr>
<tr>
<td>Blair</td>
<td>Gluten Drying Flash (8)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Carbon Furnace - Corn Syrup - (EU02)</td>
<td>Zero hearth furnace</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Feed Drying - Rotary - (EU-72-FD)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Feed Drying - STD - (EU-72-FD)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Germ Drying - Fluid Bed - (EU-113)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Germ Drying - Fluid Bed - (EU-20)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Gluten Drying - STD - (EU-20)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Dayton</td>
<td>Carbon Furnace - Corn Syrup - (P067)</td>
<td>Zero hearth furnace</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
</tr>
<tr>
<td>Dayton</td>
<td>Carbon Furnace - Fructose - (P568)</td>
<td>Zero hearth furnace</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
</tr>
<tr>
<td>Dayton</td>
<td>Gluten Drying - Flash - (P057)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Dayton</td>
<td>Germ Drying - STD - (P031)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Dayton</td>
<td>Germ Drying - STD - (P052)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Dayton</td>
<td>Germ Drying - STD - (P088)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Dayton</td>
<td>Gluten Drying - Flash - (P072)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Decatur</td>
<td>Carbon Furnace</td>
<td>Zero hearth furnace or thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Decatur</td>
<td>Carbon Furnace</td>
<td>Zero hearth furnace or thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Decatur</td>
<td>Feed Drying - Rotary</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Dimmit</td>
<td>Carbon Furnace - (S-304)</td>
<td>Zero hearth furnace or thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>5</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Carbon Furnace - (37,000)</td>
<td>Zero hearth furnace</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Carbon Furnace - (56,000)</td>
<td>Zero hearth furnace</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously</td>
<td>3</td>
</tr>
</tbody>
</table>
## Appendix K - Corn Processing CO Emission Control Plan

<table>
<thead>
<tr>
<th>Facility</th>
<th>Emitter Unit Description and Number</th>
<th>Control Device Description</th>
<th>Emission Limit</th>
<th>Parameter Monitoring Frequency</th>
<th>Compliance Operating Range</th>
<th>Schedule (years from beginning of Current District)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hammond</td>
<td>Carbon Furnace - (104-01-R)</td>
<td>Zero hearth furnace</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3 (years)</td>
</tr>
<tr>
<td>Hammond</td>
<td>Feed Drying - Rotary - (124-01-G)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 5 (years)</td>
</tr>
<tr>
<td>Hammond</td>
<td>Germ Drying - Rotary - (21A-02-G)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 5 (years)</td>
</tr>
<tr>
<td>Hammond</td>
<td>Germ Drying - Rotary - (51A-02-G)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 5 (years)</td>
</tr>
<tr>
<td>Memphis</td>
<td>Carbon Furnace - Corn Syrup - (6008)</td>
<td>Zero hearth furnace</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3 (years)</td>
</tr>
<tr>
<td>Memphis</td>
<td>Carbon Furnace - Fructose - (9002)</td>
<td>Zero hearth furnace</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3 (years)</td>
</tr>
<tr>
<td>Memphis</td>
<td>Carbon Furnace - Fructose - (9008)</td>
<td>Zero hearth furnace</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3 (years)</td>
</tr>
<tr>
<td>Memphis</td>
<td>Gluten Drying - Flash - (4008B)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 5 (years)</td>
</tr>
<tr>
<td>Memphis</td>
<td>Gluten Drying - Flash - (4011)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 5 (years)</td>
</tr>
<tr>
<td>Memphis</td>
<td>Germ Drying - STD - (4011)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 5 (years)</td>
</tr>
<tr>
<td>Memphis</td>
<td>Germ Drying - STD - (4011)</td>
<td>Thermal oxidizer</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 5 (years)</td>
</tr>
<tr>
<td>Wahpeton</td>
<td>Carbon Furnace - Fructose - (REP41)</td>
<td>Zero hearth furnace</td>
<td>90% control or &lt;= 100 ppm</td>
<td>Operating Temperature</td>
<td>TBD (3 hour average)</td>
<td>Continuously 3 (years)</td>
</tr>
</tbody>
</table>

Comments:

In addition, for unit(s) controlled by RTOs not designed for on-line regeneration (i.e., bake-out) and that are not preceded by a WESP or equivalent device(s), the emission limitations do not apply to periods of off-line RTO regeneration not to exceed 50 unit operating hours per calendar year and individual off-line RTO regeneration periods not to exceed 12 unit operating hours. For RTOs servicing more than one unit, a unit operating hour is any hour in which one or more of the unit is on line. Off-line RTO regeneration while all associated units are shut down is not included in these operating limitations. Also, off-line RTO regeneration periods that can be completed during unrelated shutdown, or malfunction periods (i.e., periods not related to the need to perform an off-line RTO regeneration) are not included in these limitations (i.e., Cargill may perform preventative off-line RTO regenerations during periods when the RTO is off-line for other reasons such as when the RTO is off-line due to maintenance or malfunction of upstream PM control equipment which requires bypass of the RTO). Cargill may petition EPA and the appropriate state or local regulatory agency to adjust these operating limitations for a specific RTO. With respect to the Dayton, OH facility, all on-line regeneration (bake-out) shall be conducted in accordance with OAC Rules 3745-15-06(A)(3) and 3745-15-06(B).
Appendix I.

Hammond Corn Processing Source SO$_2$ Emission Control Plan
### Appendix L - Hammond Corn Processing Process Source SO2 Emission Control Plan

<table>
<thead>
<tr>
<th>Emission Unit Description and Number</th>
<th>Control Device Description</th>
<th>Emission Limit</th>
<th>Parameters Monitored</th>
<th>Compliance Operating Range</th>
<th>Parameter Monitoring Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germ Drying-Rotary (21A-02-G)</td>
<td>Scrubber</td>
<td>90% control or &lt;=20 ppm</td>
<td>pH</td>
<td>TBD</td>
<td>Once Each Day</td>
</tr>
<tr>
<td>Germ Drying-Rotary (51A-02-G)</td>
<td>Scrubber</td>
<td>90% control or &lt;=20 ppm</td>
<td>pH</td>
<td>TBD</td>
<td>Once Each Day</td>
</tr>
<tr>
<td>Bran Dryer-Flash (89-01-G)</td>
<td>Scrubber</td>
<td>TBD (note 2)</td>
<td>pH</td>
<td>TBD (NOTE 1)</td>
<td>Once Each Day</td>
</tr>
<tr>
<td>Feed Dryer-Rotary (69-03-G)</td>
<td>Scrubber</td>
<td>90% control or &lt;=20 ppm</td>
<td>pH</td>
<td>TBD</td>
<td>Once Each Day</td>
</tr>
<tr>
<td>Feed Dryer-Rotary (124-01-G)</td>
<td>Scrubber</td>
<td>90% control or &lt;=20 ppm</td>
<td>pH</td>
<td>TBD</td>
<td>Once Each Day</td>
</tr>
<tr>
<td>Gluten Dryer-Flash (121-01-G)</td>
<td>Scrubber</td>
<td>90% control or &lt;=20 ppm</td>
<td>pH</td>
<td>TBD</td>
<td>Once Each Day</td>
</tr>
<tr>
<td>Germ Drying-Fluid Bed (124A-01-G)</td>
<td>Scrubber</td>
<td>90% control or &lt;=20 ppm</td>
<td>pH</td>
<td>TBD</td>
<td>Once Each Day</td>
</tr>
<tr>
<td>Carbon Furnace (104-01-R)</td>
<td>Scrubber</td>
<td>TBD (note 2)</td>
<td>pH</td>
<td>TBD</td>
<td>Once Each Day</td>
</tr>
</tbody>
</table>

**Notes:**

1. The compliance operating range parameters shall be the same as those set forth in Appendix I for this unit.

2. To establish emission limits for the Bran Dryer (89-01-G) and Carbon Furnace (104-01-R), Cargill shall operate the scrubbers associated with these emission units at a pH equal to the average of the pH operating ranges for all other sources listed in Appendix L, established for purposes of demonstrating compliance with the emission limits listed in Appendix L.
Appendix M

Performance Testing Plan
## Appendix M - Performance Testing Plan

<table>
<thead>
<tr>
<th>Facility</th>
<th>Emission Unit Description and Number</th>
<th>Pollutant Tested</th>
<th>Test Methodology</th>
<th>Testing Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blair</td>
<td>Carbon Furnace - Fructose - (58)</td>
<td>VOC, CO</td>
<td>Testing done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Blair</td>
<td>Gluten Drying - Flash - (8)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Blair</td>
<td>Steephouse Scrubber - (5)</td>
<td>VOC</td>
<td>Control Efficiency Testing</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Carbon Furnace - Corn Syrup - (EU32)</td>
<td>VOC, CO</td>
<td>Testing done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Feed Drying - Rotary - (EU72-FD)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Feed Drying - STD - (EU72-FD)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Germ Drying - Fluid Bed - (EU113)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Germ Drying - Fluid Bed - (EU20)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Gluten Drying - STD - (EU20)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Cedar Rapids</td>
<td>Steephouse Scrubber - (EU41)</td>
<td>VOC</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dayton</td>
<td>Bran Dryer - Rotary - (P037) (note 1)</td>
<td>VOC, CO</td>
<td>Test done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dayton</td>
<td>Bran Dryer - Rotary - (P040) (1)</td>
<td>VOC</td>
<td>See note 1</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dayton</td>
<td>Bran Dryer - Rotary - (P068) (1)</td>
<td>VOC</td>
<td>See note 1</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dayton</td>
<td>Carbon Furnace - Corn Syrup - (P067) (1)</td>
<td>VOC, CO</td>
<td>Test done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dayton</td>
<td>Carbon Furnace - Fructose - (P582) (1)</td>
<td>VOC, CO</td>
<td>Test done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dayton</td>
<td>Germ Drying - STD - (P031) (1)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dayton</td>
<td>Germ Drying - STD - (P052) (1)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dayton</td>
<td>Germ Drying - STD - (P068) (1)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dayton</td>
<td>Germ Drying - Flash - (P057) (1)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dayton</td>
<td>Germ Drying - Flash - (P072) (1)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Decatur</td>
<td>Carbon Furnace</td>
<td>VOC, CO</td>
<td>Test done per Appendix O</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Decatur</td>
<td>Carbon Furnace</td>
<td>VOC, CO</td>
<td>Test done per Appendix O</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Decatur</td>
<td>Feed Drying - Rotary</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dimmitt</td>
<td>Carbon Furnace - (S-304)</td>
<td>VOC, CO</td>
<td>Test done per Appendix O</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Dimmitt</td>
<td>Package Boiler - S406</td>
<td>NOx</td>
<td>40 CFR Part 60 Method 7(E)</td>
<td>By end of year 10 of entry of the consent decree</td>
</tr>
<tr>
<td>Dimmitt</td>
<td>Package Boiler - S407</td>
<td>NOx</td>
<td>40 CFR Part 60 Method 7(E)</td>
<td>By end of year 10 of entry of the consent decree</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Carbon Furnace - (37,000)</td>
<td>VOC, CO</td>
<td>Test done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Carbon Furnace - (56,000)</td>
<td>VOC, CO</td>
<td>Test done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Millhouse Scrubber - (102,000)</td>
<td>VOC</td>
<td>Control Efficiency Testing</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Eddyville</td>
<td>Millhouse Scrubber - (119,000)</td>
<td>VOC</td>
<td>Control Efficiency Testing</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Fayetteville</td>
<td>Stoker Boiler - ES22</td>
<td>NOx</td>
<td>40 CFR Part 60 Method 7(E)</td>
<td>By end of year 10 of entry of the consent decree</td>
</tr>
<tr>
<td>Gainesville</td>
<td>Stoker Boiler - B001</td>
<td>NOx</td>
<td>40 CFR Part 60 Method 7(E)</td>
<td>By end of year 10 of entry of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Bran Dryer - Flash - (89-01-G)</td>
<td>VOC</td>
<td>TBD</td>
<td>By end of year 10 of entry of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Carbon Furnace - (104-01-R)</td>
<td>VOC, CO</td>
<td>Test done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Feed Drying - Rotary - (124-01-G)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Feed Drying - Rotary - (89-03-G)</td>
<td>VOC</td>
<td>Control Efficiency Testing</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Germ Drying - Rotary - (21A-02-G)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Germ Drying - Rotary - (51A-02-G)</td>
<td>VOC</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Package Boiler - 1002U</td>
<td>NOx</td>
<td>40 CFR Part 60 Method 7(E)</td>
<td>By end of year 10 of entry of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Gas Tube &amp; Tile - 1003U</td>
<td>NOx</td>
<td>40 CFR Part 60 Method 7(E)</td>
<td>By end of year 10 of entry of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Germ Drying-Rotary - (21A-02-G)</td>
<td>SO2</td>
<td>Control Efficiency Testing</td>
<td>By end of year 3 of entry of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Germ Drying-Rotary - (51A-02-G)</td>
<td>SO2</td>
<td>Control Efficiency Testing</td>
<td>By end of year 3 of entry of the consent decree</td>
</tr>
</tbody>
</table>
## Appendix M - Performance Testing Plan

<table>
<thead>
<tr>
<th>Facility</th>
<th>Emission Unit Description and Number</th>
<th>Pollutant Tested</th>
<th>Test Methodology</th>
<th>Testing Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hammond</td>
<td>Bran Dryer - Flash - (89-01-G)</td>
<td>SO₂</td>
<td>40 CFR Part 60 Method 6</td>
<td>By end of year 3 of entry of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Feed Dryer - Rotary - (89-03-G)</td>
<td>SO₂</td>
<td>Control Efficiency Testing</td>
<td>By end of year 3 of entry of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Feed Drying - Rotary - (124-01-G)</td>
<td>SO₂</td>
<td>Control Efficiency Testing</td>
<td>By end of year 3 of entry of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Gluten Dryer - Flash - (121-01-G)</td>
<td>SO₂</td>
<td>Control Efficiency Testing</td>
<td>By end of year 3 of entry of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Germ Drying - Fluid Bed - (124A-01-G)</td>
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<td>Control Efficiency Testing</td>
<td>By end of year 3 of entry of the consent decree</td>
</tr>
<tr>
<td>Hammond</td>
<td>Carbon Furnace - (104-01-R)</td>
<td>SO₂</td>
<td>40 CFR Part 60 Method 6</td>
<td>By end of year 3 of entry of the consent decree</td>
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<tr>
<td>Memphis</td>
<td>Bran Dryer - Rotary - (4003)</td>
<td>VOC</td>
<td>TBD</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Memphis</td>
<td>Bran Dryer - Rotary - (4003)</td>
<td>VOC</td>
<td>TBD</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Memphis</td>
<td>Carbon Furnace - Corn Syrup - (6008)</td>
<td>VOC, CO</td>
<td>Testing done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Memphis</td>
<td>Carbon Furnace - Fructose - (4002)</td>
<td>VOC, CO</td>
<td>Testing done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Memphis</td>
<td>Carbon Furnace - Fructose - (4008)</td>
<td>VOC, CO</td>
<td>Testing done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Memphis</td>
<td>Germ Drying - STD - (4011)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Memphis</td>
<td>Germ Drying - STD - (4011)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Memphis</td>
<td>Gluten Drying - Flash - (4008B)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Memphis</td>
<td>Gluten Drying - Flash - (4011)</td>
<td>VOC, CO</td>
<td>Control Efficiency Testing</td>
<td>By end of year 5 of lodging of the consent decree</td>
</tr>
<tr>
<td>Sidney</td>
<td>Stoker Boiler - B001</td>
<td>NOₓ</td>
<td>40 CFR Part 60 Method 7(E)</td>
<td>By end of year 10 of entry of the consent decree</td>
</tr>
<tr>
<td>Sidney</td>
<td>Stoker Boiler - B002</td>
<td>NOₓ</td>
<td>40 CFR Part 60 Method 7(E)</td>
<td>By end of year 10 of entry of the consent decree</td>
</tr>
<tr>
<td>Sioux City</td>
<td>Package Boiler - 17</td>
<td>NOₓ</td>
<td>40 CFR Part 60 Method 7(E)</td>
<td>By end of year 10 of entry of the consent decree</td>
</tr>
<tr>
<td>Wahpeton</td>
<td>Carbon Furnace - Fructose - (REP41)</td>
<td>VOC, CO</td>
<td>Testing done per Appendix O</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
<tr>
<td>Wahpeton</td>
<td>Gluten Drying - Flash - (FEP21)</td>
<td>VOC</td>
<td>TBD</td>
<td>By end of year 3 of lodging of the consent decree</td>
</tr>
</tbody>
</table>

Comments:

Where exhaust from a specific unit is commingled with exhaust from other sources, compliance will be based on emissions from only the specific unit.


For units listed in Appendices H, I and K, if multiple listed units emit to a single system, Cargill shall demonstrate compliance with any applicable performance standards by demonstrating compliance at the system's end control device that emits to the atmosphere. If the listed units' exhaust is commingled with the exhaust of other units not listed in Appendices H, I and K, Cargill shall demonstrate compliance with the applicable performance standard based on the exhaust of the listed units only.

For new control devices installed after the date of lodging and pursuant to this Consent Decree, Cargill shall conduct testing required by this Appendix M within 180 days after start-up of the newly installed controls.

Notes:

(1) In addition to the emission testing and other requirements of this Appendix M, Cargill shall also comply with the emissions testing requirements set forth in Appendix J.
Appendix N

Extraction Solvent Loss Recordkeeping Template
<table>
<thead>
<tr>
<th>Date/Month/Year</th>
<th>Total Crush Monthly (tons)</th>
<th>Total Crush 12-Month Rolling (tons)</th>
<th>Conventional Crush Monthly (tons) (Specialty Plants Only)</th>
<th>Conventional Crush 12-Month Rolling (tons) (Specialty Plants Only)</th>
<th>Specialty Crush Monthly (tons) (Specialty Plants Only)</th>
<th>Specialty Crush 12-Month Rolling (tons) (Specialty Plants Only)</th>
<th>Solvent Loss Monthly (gallons)</th>
<th>Solvent Loss 12-Month Rolling (gallons)</th>
<th>Malfunction Period Solvent Loss 12-Month Rolling (gallons)</th>
<th>Adjusted Solvent Loss Monthly (gallons/ton)</th>
<th>Solvent Loss Rate 12-Month Rolling (gallons/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
Appendix O

Carbon Furnace Test Protocol
Appendix O

CARBON FURNACE TEST PROTOCOL

A Protocol For Determination Of Volatile Organic Compound And Carbon Monoxide Destruction Efficiency For Afterburners Installed On Carbon Furnace Exhauits.

INTRODUCTION

The protocol sets forth the test methodology, technique and monitoring procedures that will be used to establish after burner operating temperatures required to achieve 95% reduction of volatile organic compounds (VOC) and 90% of carbon monoxide (CO) from carbon furnace exhausts.

PROGRAM SCOPE AND TEST STRATEGY

Because afterburners on carbon furnaces are an integrated part of the furnace, it is not possible to install inlet sampling ports to assess inlet VOC and CO concentrations. VOC and CO destruction efficiency for carbon furnace afterburners, therefore, will be determined by comparing uncontrolled conditions with the afterburner shut off (hereinafter referred to as “inlet” conditions), to controlled emissions with the afterburner operating.

Sequential testing of the carbon furnace with the afterburner shut off and with it operating will be completed such that a minimum amount of time elapses between each “inlet” and outlet test. Although time between each inlet and outlet test will be primarily dictated by the amount of time needed for the afterburner to reach a proper operating temperature or cool down, additional measures will be employed to minimize the time between tests. These measures will include dedicating separate analyzers and heated sample lines for the “inlet” and outlet locations (reduces calibration time as well as the time needed to reach a stable sample line background level). Velocity traverses also will be configured so as not to delay testing (see schedule below). Each test run will consist of one 60-minute outlet test (after burner operating), a period between tests where the afterburner is allowed to cool down, and one 60-minute “inlet” test. In all, a total of three runs totaling 120-minutes of measured data each (60 outlet, 60 inlet) will be completed per unit. Emissions between the two 60-minute segments of each test run while the afterburner is cooling down will not be included in the test result. Prior to the second and third test runs time will be allowed to operate and stabilize the afterburner.

For each test run, gas stream velocity, temperature, moisture and fixed gases will be determined to allow for the calculation of gas stream volumetric flowrate. Velocity traverses will be completed for each “inlet” and outlet test. In addition, moisture will be determined during each test (one moisture determination per “inlet” and outlet test) for a total of 6 moisture runs. Fixed gases also will be determined for each test via collection of an integrated sample and analysis in accordance with EPA Method 3. Accordingly, testing of the carbon furnace afterburners for destruction efficiency will be completed as follows:

- Complete Run 1 outlet (controlled condition) velocity traverse.
- Conduct Run 1 outlet test for VOC, CO, moisture, and fixed gases with the afterburner on. Test run duration will be 60 minutes.
- Turn off the afterburner and wait until the temperature in the afterburner is stabilized and within 100 degrees F of the feed hearth temperature.
• Complete Run 1 "inlet" test for VOC, CO, moisture, and fixed gases for 60 minutes. Conduct Run 1 "inlet" velocity traverse.
• Complete Runs 2 and 3 duplicating the steps cited above for Run 1.

GENERAL SOURCE DESCRIPTION

Activated carbon is used to remove natural impurities present in corn syrup. As the carbon adsorbs impurities from the corn syrup, the carbon becomes saturated (spent) with those impurities and becomes less effective. Once the carbon is no longer useful for the process, the carbon is recycled through regeneration in the carbon furnaces.

Carbon regeneration occurs as the spent carbon is fed into the top sections of the multi-hearth furnace. The carbon passes through three separate zones within the furnace. In each zone, the carbon is subjected to different temperatures and atmospheres to drive off the impurities and restore the carbon. A rotating central shaft circulates a rabble arm that mixes and advances the carbon through the hearths exposing them to the counter-current flow of gases.

The three reaction zones, or steps, that occur in the furnace are drying, pyrolysis, and activation.

A. In the drying, or heating zone (which is the closest zone to the afterburner), water is evaporated off the carbon through the counter-current action of the hot combustion gases. The temperature of the drying zone is approximately 600-1300°F on a six-hearth and 500-1000°F on an eight-hearth furnace.

B. In the second zone, or pyrolysis zone, the temperature is raised to approximately 1300-1700°F in an oxygen-free atmosphere. Under these conditions, the adsorbed organic impurities are pyrolyzed and volatiles are driven off.

C. The third zone is the gasification, or activation zone. The temperature in this area approaches 1800°F. The residues from the carbon are oxidized in a manner that prevents damage to the original carbon pore structure. If the carbon is not heated to reaction temperature, or the carbon is improperly dried, the reaction of water vapor, CO2, and adsorbate will not proceed in an effective regeneration process. Once the carbon passes through the final zone of the multiple hearth furnace, the carbon is sent to the quench tank, and then pumped back to the process.

The afterburner, which follows the drying zone of the furnace, is intended to burn the organic compounds driven off of the carbon that do not burn in the furnace.

During the times of testing, the carbon furnace will be operated at or near its rated throughput capacity.

SAMPLING LOCATION DESCRIPTION

Use or installation of test ports and selection of velocity traverse points will be done in accordance with EPA Method 1 criteria.
MONITORING PROCEDURES

VOC and CO measurements and flow monitoring will be completed using the following methods:

- Total Gaseous Organics (VOC) - EPA Method 25A
- Carbon Monoxide (CO) - EPA Method 10
- Stack Gas Volumetric Flow Rate - EPA Method 2
- Fixed Gases - EPA Method 3
- Stack Gas Moisture - EPA Method 4

The following provides a description of the sampling and analytical methods to be employed.

VOC (Total Gaseous Organics) - EPA Method 25A

Emissions testing for VOC will be completed in accordance with EPA Method 25A. In this procedure, stack gas is delivered directly to a heated TGO analyzer equipped with a flame ionization detector (FID). The analyzer is calibrated with known concentrations of propane and results are expressed as propane equivalents.

The sample delivery system consists of an in-stack sintered particulate filter and stainless steel sample probe, a three-way valve assembly for delivery of calibration gases to the system probe, a heat-traced Teflon sample line and sample pump. Sample gas is delivered to the FID analyzer on a wet basis and subsequently converted to dry conditions for calculation of a mass emission rate.

The TGO monitors will be VIG-20 Flame Ionization analyzers. The analyzers are expected to be operated in the 0-10,000 ppm range for the inlet location and the 0-100 ppm range for the outlet. The output signals from each analyzer is connected to strip chart recorders as well as an IBM PC, equipped with a Strawberry Tree, analog to digital converter and Workbench® data acquisition system software. This software provides data in 1-minute averages and calculates TGO emission rates in terms of parts per million (ppmv) and pounds per hour (lbs/hr) for each 1-minute average and for each test run.

Carbon Monoxide – EPA Method 10

Carbon Monoxide will be determined in accordance with EPA Method 10, modified to eliminate the ascarite trap used for CO₂ removal. Use of the ascarite trap is not needed for NDIR analyzers which use the gas filter correlation technique to eliminate CO₂ interference. Samples will be collected in conjunction with each test run using the integrated tedlar bag sampling approach described in the method. At the conclusion of each test run, the contents of the integrated tedlar bag will be analyzed for carbon monoxide concentration using a non-dispersive infrared analyzer (NDIR) with gas filter correlation in accordance with the requirements of EPA Method 10. The analyzer will be calibrated using zero gas and two upscale standards as cited in the test method. All other QC requirements specified by the method will be employed.

Stack Gas Volumetric Flowrate – EPA Method 2

Vent stream volumetric flowrate will be determined in conjunction with each test run in accordance with EPA Method 2. Gas stream temperature and moisture will also be determined in association with each flowrate determination. Temperature will be determined using a thermocouple and pyrometer and gas stream moisture via EPA Method 4.
As previously stated, gas stream velocity will be determined in conjunction with each test (before or after each TGO test) while moisture and fixed gases will be measured simultaneous with each TGO test run. The traverse will be completed across two stack diameters as specified in EPA Method 2. All test ports and traverse points will meet the minimum criteria specified in EPA Method 1.

**Fixed Gases (O₂, CO₂)**

Fixed gas (O₂, CO₂) measurement used for the determination of stack gas molecular weight will be completed in accordance with EPA Method 3, "Gas Analysis for the Determination of Dry Molecular Weight". This procedure involves collection of an integrated sample followed by analysis for fixed gases using an Orsat analyzer. O₂, CO₂ are measured directly and N₂ is determined by difference.

**Stack Gas Moisture**

Stack gas moisture will be measured in accordance with the EPA Method 4, "Determination of Moisture Content in Stack Gases", 40 CFR 60, Appendix A. In this procedure a known volume of stack gas is extracted at a fixed rate through a series of water impingers and silica gel and the collected condensate is measured to determine the gas stream percent moisture. Moisture will be determined simultaneous with each 60-minute inlet and outlet test.

**TEST METHOD REFERENCES AND MODIFICATIONS**

The following provides detailed references for the test methods proposed for this program. Proposed reference method modifications are listed following the appropriate reference.

1. **VOC's** -- EPA Method 25A, Measurement of Total Gaseous Organic Concentration Using a Flame Ionization Detector, 40 CFR 60, Appendix A. Calibration standards will be prepared using a propane standard in accordance with the method.
2. **CO** -- EPA Method 10, Determination of Carbon Monoxide Emissions from Stationary Sources, 40 CFR 60, Appendix A.
3. **Flow** -- EPA Method 2, 40 CFR 60, Appendix A.
4. **Moisture** -- EPA Method 4, Determination of Moisture Content in Stack Gases - 40 CFR 60, Appendix A.
5. **Fixed Gases (O₂, CO₂)** -- EPA Method 3, Gas Analysis for Determination of Dry Molecular Weight - 40 CFR 60, Appendix A.

**DATA REDUCTION REQUIREMENTS**

Concentration data from the Method 25A analysis will be reduced for each operating condition, and converted to a pounds of VOC and CO emitted per hour (lb/hr). The "inlet" or uncontrolled condition lb/hr rate will be compared to the outlet or controlled lb/hr rate and a determination of the percent reduction will be made. The results of each test run as well as the percent reduction will be reported to the agency as follows:
<table>
<thead>
<tr>
<th>Test Run</th>
<th>Inlet Emissions</th>
<th>Outlet Emissions</th>
<th>Destruction Efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VOC or CO</td>
<td>VOC or CO</td>
<td></td>
</tr>
<tr>
<td>Test Run 1</td>
<td>ppmv</td>
<td>ppmv</td>
<td></td>
</tr>
<tr>
<td></td>
<td>lb/hr</td>
<td>lb/hr</td>
<td></td>
</tr>
<tr>
<td>Test Run 2</td>
<td>ppmv</td>
<td>ppmv</td>
<td></td>
</tr>
<tr>
<td></td>
<td>lb/hr</td>
<td>lb/hr</td>
<td></td>
</tr>
<tr>
<td>Test Run 3</td>
<td>ppmv</td>
<td>ppmv</td>
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</tr>
<tr>
<td></td>
<td>lb/hr</td>
<td>lb/hr</td>
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</tr>
<tr>
<td>Ave ppmv</td>
<td>ppmv</td>
<td>ppmv</td>
<td></td>
</tr>
<tr>
<td>Ave lb/hr</td>
<td>lb/hr</td>
<td>lb/hr</td>
<td></td>
</tr>
</tbody>
</table>

Destruction efficiency will be calculated using the following equation:

\[
Eff = \frac{Ci - Co}{Ci}
\]

Where:
- \(Eff\) = Overall destruction efficiency
- \(Ci\) = Inlet lb/hr emission rate
- \(Co\) = Outlet lb/hr emission rate
Appendix P

Supplemental Environmental Projects
Appendix P
Supplemental Environmental Projects

Elimination of Gaseous Sulfur Dioxide – Blair, NE, Cedar Rapids, IA, Dayton, OH, Eddyville, IA and Memphis, TN - Cargill has historically stored gaseous sulfur dioxide at corn wet milling facilities for use in the production process. Gaseous sulfur dioxide is viewed as posing significant environmental and health risks and its storage and use is regulated under 40 CFR Part 68 (Chemical Accident Prevention Provisions) and 29 CFR Part 1910.119 (Process Safety Management of Highly Hazardous Chemicals). Gaseous sulfur dioxide storage exceeds the 40 CFR Part 68 thresholds at Blair, Cedar, Dayton, Eddyville, and Memphis and total gaseous sulfur dioxide storage exceeds 1.2 million pounds at these facilities. This project involves permanent replacement of gaseous sulfur dioxide used in the corn wet milling process with a less hazardous substitute, liquid sodium bisulfide (SBS), which is not subject to either risk management or process safety plan requirements. Project scope will include installation of tanks, piping, and controls for systems located in Blair, Cedar, Dayton, Eddyville, and Memphis, purchase of SBS, and removal of gaseous SO₂ handling capabilities. This project will benefit the environment by eliminating the risk of SO₂ releases through the removal of over 1.2 million pounds of sulfur dioxide storage and reduced SO₂ emissions from facility processes. It is also anticipated that this project would reduce fugitive sulfur dioxide emissions.

Pilot VOC and HAP Reduction Project—Memphis, TN Oxidized Starch Process – VOCs and HAPs are formed in the oxidized starch production process primarily by the reaction of hypochlorite, a bleaching agent, with impurities in the starch. This innovative pollution reduction project will reduce the formation of VOCs and HAPs in the oxidized starch production process, thus reducing associated emissions. The project scope includes the installation and operation of new equipment designed to reduce impurity levels in starch production. Studies by Cargill have determined that reduced impurity levels can significantly reduce formation of VOCs and HAPs in the process. It is anticipated that this project could reduce VOC and HAP emissions from this process by up to 30 percent.

Elimination of Ozone Depleting Substance – Eddyville, IA and Blair, NE – R22 (chlorodifluoromethane) is used in condensers at Cargill’s Blair, NE and Eddyville, IA ethanol loadout facilities. These condensers are BACT control devices installed and operated pursuant to the sources’ PSD permit. This project is to permanently replace these condensers with an equivalent or better VOC control that results in the removal of R22. Cargill shall not use any of the retired condensers within any of its other facilities (except with a Non-Ozone Depleting Refrigerant) and all refrigerant from the retired condensers shall be either sent for destruction in accordance with the provisions of 40 C.F.R. Part 82.104(h), or reclaimed as defined in 40 C.F.R. Part 82.152, by a certified reclaimer as defined in 40 C.F.R. Part 82.164. This project will benefit the environment by the removal and destruction of over 700 pounds of an ozone depleting substance.
Appendix Q

Notice and Penalty Payment
APPENDIX Q
NOTICE AND PENALTY PAYMENT PROVISIONS

The United States

Payment of penalties:

Payment shall be made in accordance with paragraphs 40 though 42, paragraphs 57 through 59, and paragraph 84 of the Consent Decree.

Contact persons for notices:

Information shall be sent to the appropriate Plaintiffs in accordance with paragraph 84 of the Consent Decree at the addresses below.

U.S. EPA HQ

Technical Contact:
Cary Secrest
Environmental Protection Specialist
US EPA Air Enforcement Division (Mail Code 2242A)
Ariel Rios Building Room 2119
1200 Pennsylvania Ave., N.W.
Washington, DC  20460 [for Fed Ex/UPS use ZIP 20004]
secrest.cary@epa.gov
Phone:  202-564-8661
Fax:    202-564-0053
Cell:   202-236-3499
Air Lab: 410-305-3069

Counsel:
Charlie Garlow
US EPA Air Enforcement Division (Mail Code 2242A)
Ariel Rios Building Room 2111A
1200 Pennsylvania Ave., N.W.
Washington, DC  20460 [for FedEx/UPS use ZIP 20004]
garlow.charlie@epa.gov
Phone:  202-564-1088
Fax:    202-564-0068

U.S. EPA Region 4
Technical Contacts:
Jason McDonald
US EPA Region 4
Atlanta Federal Center
61 Forsyth St. S.W.
Atlanta, GA 30303
mcdonald.jason@epa.gov
Phone: 404-562-9203
Fax: 404-562-9164

Kevin I. Taylor
US EPA Region 4
Atlanta Federal Center
61 Forsyth St. S.W.
Atlanta, GA 30303
taylor.kevin@epa.gov
Phone: 404-562-9134
Fax: 404-562-9164

Counsel:
Gregory R. Tan
Associate Regional Counsel
US EPA Region 4
61 Forsyth St. S.W.
Atlanta, GA 30303
tan.gregory@epa.gov
Phone: 404-562-9697
Fax: 404-562-9486

Please also cc:
Angelia Souder Blackwell
US EPA Region 4
Office of Environmental Accountability
61 Forsyth St. S.W.
Atlanta, GA 30303
blackwell.angelia@epa.gov
Phone: 404-562-9527
Fax: 404-562-9664

U.S. EPA Region 5
Technical Contacts:
Compliance Tracker
US EPA Region 5
77 W. Jackson Blvd AE-17J
Chicago, IL  60604
Phone:  312-886-6797
Fax:  312-353-8289

Counsel:
Kathleen Schnieders
US EPA Region 5
77 W. Jackson Blvd C-14J
Chicago, IL  60604
schnieders.kathleen@epa.gov
Phone:  312-353-8912
Fax:  312-886-0747

U.S. EPA Region 6

Technical Contact:
Raymond Magyar (6EN-AA)
Air Enforcement Section
US EPA Region 6
1445 Ross Avenue Suite 1200
Dallas, TX  75202
magyar.raymond@epa.gov
Phone:  214-665-7288
Fax:  214-665-3177 or 214-665-7446

Counsel:
Patricia Capps Welton (6RC-EA)
Air/Toxics Enforcement Branch
Office of Regional Counsel
US EPA Region 6
1445 Ross Avenue Suite 1200
Dallas, TX  75202-2733
Welton.patricia@epa.gov
Phone:  214-665-7327
Fax:  214-665-3177

U.S. EPA Region 7
Technical Contact:
Richard Tripp ARTD/APCO
US EPA Region 7
901 N. 5th St.
Kansas City, KS  66101
tripp.richard@epa.gov
Phone:  913-551-7566
Fax:  913-551-9566

Counsel:
Belinda Holmes CNSL/REGE
Senior Assistant Regional Counsel
US EPA Region 7
901 N. 5th St.
Kansas City, KS  66101
holmes.belinda@epa.gov
Phone:  913-551-7714
Fax:  913-551-7925

U.S. EPA Region 8

Technical Contact:
Air Program Director c/o Scott Whitmore (8ENF-AT)
Office of Enforcement, Compliance & Environmental Justice
US EPA Region 8
999 18th Street, Suite 300
Denver, CO  80202-2466
Whitmore.scott@epa.gov
Phone:  303-312-6317
Fax:  303-312-6191

State of Alabama

Payment of penalties:

The check must be made payable to the “Alabama Department of Environmental Management.” Please make a notation on the check that it is for the Air Division and mail the check to:

Alabama Department of Environmental Management
Air Division
P.O. Box 301463
Montgomery, AL 36130-1463
Attention: Clai Mullens

Contact person for notices:

Ronald W. Gore
Alabama Department of Environmental Management
Air Division
P.O. Box 301463
Montgomery, AL 36130-1463
rwg@adem.state.al.us
Phone: 334-271-7861
Fax: 334-279-3044

State of Georgia

Payment of penalties:

The check must be made payable to the Georgia Department of Natural Resources and must be mailed to:

Georgia Air Protection Branch
4244 International Parkway, Suite 120
Atlanta, GA 30354, Attn. Lou Musgrove

Contact person for notices:

Lou Musgrove, Program Manager
Stationary Source Compliance Program
Georgia Air Protection Branch
4244 International Parkway, Suite 120
Atlanta, GA 30354
Lou_Musgrove@dnr.ga.state.us
Phone: 404-363-7018
Fax: 404-363-7100

State of Illinois

Payment of penalties:

The check shall be made payable to the “Illinois EPA for deposit into the Illinois
Environmental Protection Trust Fund” and mailed to:

Illinois Environmental Protection Agency  
Fiscal Services  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276

Contact person for notices:  
Ms. Julie K. Armitage  
Illinois Environmental Protection Agency  
Bureau of Air  
Compliance and Enforcement Section  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
Julie.Armitage@epa.state.il.us  
Phone: 217-782-5811  
Fax: 217-782-6348

State of Indiana

Payment of penalties:

Check must be made payable to the “Environmental Management Special Fund.” The check must include the case number of this action and shall be mailed to:

Cashier—Mail Code 50-10C  
Indiana Department of Environmental Management  
100 N. Senate Avenue  
Indianapolis, IN 46204-2251

NOTE: The IDEM case numbers assigned to this case are 2005-14673-A (Lafayette) and 2005-14646-A (Hammond). Please place these numbers on the check so the Cashier will post the check to the appropriate account codes.

Contact person for notices:  
Matthew Stuckey  
Senior Environmental Manager  
Office of Enforcement/Air Section – Mail Code 60-02  
Indiana Department of Environmental Management
100 N. Senate Ave.
Indianapolis, IN  46204-2251
mstuckey@dem.state.In.us
Phone:   317-233-1134
Fax:     317-233-5968

State of Iowa

Payment of penalties:

The check must be made to the order of “The State of Iowa” and mailed to:

David R. Sheridan
Assistant Attorney General
Environmental Law Division
Lucas State Office Building
321 E. 12th Street, Room 018
Des Moines, IA  50319

Contact person for notices:
Brian Hutchins, Supervisor
Air Compliance Section
Air Quality Bureau, Iowa DNR
7900 Hickman Rd., Suite 1
Urbandale, IA  50322
Brian.Hutchins@DNR.state.ia.us
Phone:   515-281-8448
Fax:     515-242-5094

Linn County, Iowa

Payment of penalties:

Checks must be made to the order of “Linn County Air Quality Division c/o the Linn County Treasurer,” and must be mailed to:

Linn County Public Health Department
501 13\textsuperscript{th} St. NW
Cedar Rapids, IA  52405
Contact person for notices:
Gregory D. Slager
Air Pollution Control Officer
Linn County Public Health Department
501 13th St. NW.
Cedar Rapids, IA 52405
Greg.Slager@linncounty.org
Phone: 319-892-6010
Fax: 319-892-6099

Polk County, Iowa

Payment of penalties:

Checks must be made to the order of the “Polk County Treasurer,” and mailed to:

Polk County Treasurer
Polk County Air Quality Division
5885 NE 14th Street
Des Moines, IA 50313

Contact person for notices:
Gary Young, Air Quality Engineer
Polk County Air Quality Division
5885 NE 14th Street
Des Moines, IA 50313
gyoung@co.polk.ia.us
Phone: 515-286-3372
Fax: 515-875-5599

State of Missouri

Payment of penalties:

The check must be payable to the State of Missouri, followed by the name of the county, in parentheses, in which the facility is located (“State of Missouri (Clay County)”). The check should be mailed to the attention of:

Jo Ann Hovath
Assistant Attorney General  
P.O. Box 899  
Jefferson City, MO 65102-0899

Contact persons for notices:

Timothy P. Duggan  
Assistant Attorney General  
P.O. Box 899  
Jefferson City, MO 65102-0899  
tim.duggan@ago.mo.gov  
Phone: 573-751-9802  
Fax: 573-751-8464

Steve Feeler  
Air Pollution Control Program  
Missouri Department of Natural Resources  
P.O. Box 176  
Jefferson City, MO 65102  
steve.feeler@dnr.mo.gov  
Phone: 573-751-4817  
Fax: 573-751-2706

State of Nebraska

Payment of penalties:

The check must be made payable to “Treasurer of Washington County, Nebraska,” with the notation “civil penalty,” and must be mailed to:

Jodi M. Fenner  
Assistant Attorney General  
2115 State Capital Building  
Lincoln, NE 68509-8920

Contact person for notices:

Shelly Kaderly  
Air Division Administrator  
1200 “N” Street, Suite 400
P.O. Box 98922  
Lincoln, NE  68509-8922  
Shelly.kaderly@ndeq.state.ne.us  
Phone:  402-471-4299  
Fax:  402-471-2909

**State of North Carolina**

**Payment of penalties:**

The check shall be made payable to “North Carolina Department of Environment and Natural Resources.” Please note that a memo on the check should refer to “STL 2005-001.” The check shall be mailed to:

Enforcement Group - Payment  
Department of Environment and Natural Resources  
Division of Air Quality  
1641 Mail Service Center  
Raleigh, NC  27699-1641

**Contact person for notices:**

Lee A. Daniel, Chief  
Technical Services Section  
NC Division of Air Quality  
1641 Mail Service Center  
Raleigh, NC  27699-1641  
Lee.Daniel@ncmail.net  
Phone:  919-733-1471  
Fax:  919-733-1812

**State of North Dakota**

**Payment of penalties:**

The check must be made payable to “North Dakota Department of Health” and mailed to:

Dave D. Glatt, Chief  
Environmental Health Section  
North Dakota Department of Health  
P.O. Box 5520  
Bismarck, ND  58506-5520
Contact person for notices:
Benjamin Gress
Division of Air Quality
North Dakota Department of Health
P.O. Box 5520
Bismarck, ND  58506-5520
bgress@state.nd.us
Phone:  701-328-5188
Fax:  701-328-5200

State of Ohio

Payment of penalties:

The check for the portion of the penalty attributable to the Sidney, Ohio facility should be made out to “Treasurer, State of Ohio,” and mailed or delivered to:

Amy Laws, Paralegal
Environmental Enforcement Section
Ohio Attorney General’s Office
30 East Broad, 25th Floor
Columbus, OH  43215-3400

Contact person for notices:

Jim Orlemann, Assistant Chief
SIP Development and Enforcement
Ohio Environmental Protection Agency
Lazarus Government Center
Division of Air Pollution Control
P.O. Box 1049
Columbus, OH  43216-1049
Jim.Orlemann@epa.state.oh.us
Phone:  614-644-3592
Fax:  614-644-3681

Montgomery County/Regional Air Pollution Control Authority (RAPCA):

Payment of penalties:
The check for the portion of the penalty attributable to the Dayton, Ohio facility must be made payable to the “Air Resources Study Trust Fund,” and must be mailed to:

Bruno Maier
RAPCA
117 South Main Street
Dayton, OH 45422-1280

Contact person for notices:

John A. Paul
RAPCA Supervisor
117 South Main Street
Dayton, OH 45422-1280
paulja@rapca.org
Phone: 937-225-5948
Fax: 937-225-3486

Memphis/Shelby County, Tennessee:

Payment of penalties:

The check must be made payable to “Memphis and Shelby County Health Department, Pollution Control Section” and should be mailed to:

Memphis and Shelby County Health Department, Pollution Control Section
814 Jefferson Avenue, 4th Floor
Memphis, Tennessee 38105
Attn: Robert Rogers, P.E.

Contact person for notices:

Robert Rogers, P.E.
Technical Manager
Memphis and Shelby County Health Department
Pollution Control Section
814 Jefferson Avenue, 4th Floor
Memphis, Tennessee 38105
brogers@mschdpollution.org
Phone: 901-544-7587 or 7586
Fax: 901-544-7308