

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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- A. 40 CFR Part 60 Subpart A – General Provisions
- B. 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
- C. 40 CFR Part 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984
- D. 40 CFR Part 60 Subpart DD – Standards of Performance for Grain Elevators
- E. 40 CFR Part 60 Subpart VV – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
- F. 40 CFR Part 60 Subpart NNN – Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations
- G. 40 CFR Part 60 Subpart RRR – Standards of Performance for Volatile Organic Compound Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes
- H. 40 CFR Part 63 Subpart A – General Provisions
- I. 40 CFR Part 63 Subpart FFFF – National Emission Standard for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing
- J. 40 CFR Part 63 Subpart GGGG – National Emission Standard for Hazardous Air Pollutants: Solvent Extractions for Vegetable Oil Production
- K. 40 CFR Part 63 Subpart DDDDD – National Emission Standard for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters
- L. Consent Decree 05-2037JMR/FLN

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

Emission Point	Emission Unit	Emission Unit Description	DNR Construction Permit #
EP-01	EU-1.1	Millfeed Baghouse - hull grinder	78-A-071-S9
	EU-1.2	pod grinder	
	EU-1.3	prep aspiration cyclone	
	EU-1.5	pellet transfer	
EP-02	EU-2.1	Bean Rail Unload - grain receiving	94-A-523-S3
EP-04	EU-4.1	Meal Grinding - meal grinder	85-A-106-S4
	EU-4.2	conveying	
	EU-4.3	metered flow agent	
EP-07	EU-7.1	Truck Unloading and Conveyance	75-A-213-S7
	EU-7.2	Grain Transferring Conveyance	
EP-08	EU-8.1	Elevator Cleaning - grain cleaning	81-A-025-S4
	EU-8.2	splits & seeds aspirator	
	EU-8.3	dryer aspirator & aspiration silo	
	EU-8.4	conveying	
EP-09	EU-9.1	Berico Grain Dryer - drying	81-A-023-S6
	EU-9.2	drying burner	
EP-10	EU-10.1	Bean Truck Dump - grain receiving	89-A-105-S5
EP-11	EU-11.1	Primary Dehulling - cracking	86-A-151-S3
	EU-11.2	dehulling & aspiration	
	EU-11.3	hull sifter cyclone	
	EU-11.4	hull aspirator	
	EU-11.5	conveying	
EP-14	EU-14.1	Flaker Aspiration - flaking	85-A-153-S6
	EU-14.2	conveying	
EP-15	EU-15.1	Rail Meal Loadout - bulk loading	85-A-107-S2
	EU-15.2	conveying	
EP-26	EU-26.1	Erie City Boiler - natural gas	79-A-188-S8
	EU-26.2	Erie City Boiler - #2 fuel oil	
	EU-26.3	Erie City Boiler - soybean oil	
	EU-26.4	Erie City Boiler - animal fats	
	EU-26.5	Erie City Boiler - biodiesel heavies	
	EU-26.6	Erie City Boiler - biodiesel	
EP-27	EU-27.1	Truck Meal Bin Vent - meal loadout storage	80-A-101-S3
	EU-27.2	meal loadout storage	

Emission Point	Emission Unit	Emission Unit Description	DNR Construction Permit #
EP-29	EU-29.1	Vertical Meal Dryer - meal dryer	89-A-106-S5
	EU-29.2	meal cooling	
EP-30	EU-30.1	Soybean Conditioning - bean conditioning	94-A-534-S3
EP-31	EU-31.1	Spent Flake Bins - spent flake storage	93-A-041-S5
EP-32	EU-32.1	Extraction Process - vegetable oil processing	97-A-327-S5
EP-34	EU-34.1	Nebraska Boiler - natural gas	98-A-389-S3
	EU-34.2	Nebraska Boiler - #2 fuel oil	
	EU-34.3	Nebraska Boiler - soybean oil	
	EU-34.4	Nebraska Boiler - animal fats	
	EU-34.5	Nebraska Boiler - biodiesel heavies	
	EU-34.6	Nebraska Boiler - biodiesel	
EP-34.2	EU-34.21	Nebraska Boiler (Heat Recover Stack) - natural gas	02-A-387-S1
	EU-34.22	Nebraska Boiler (Heat Recover Stack) - #2 fuel oil	
	EU-34.23	Nebraska Boiler (Heat Recover Stack) - soybean oil	
	EU-34.24	Nebraska Boiler (Heat Recover Stack) - animal fats	
	EU-34.25	Nebraska Boiler (Heat Recover Stack) - biodiesel heavies	
	EU-34.26	Nebraska Boiler (Heat Recover Stack) - biodiesel	
EP-35	EU-35.1	Flow Agent Storage Tank	01-A-016-S1
EP-36	EU-36	Meal Storage Tank	03-A-779
EP-37	EU-37.1	Soybean CoProduct Receiving	04-A-062-S3
	EU-37.2	Soybean CoProduct Storage	
	EU-37.3	Soybean CoProduct Handling	
EP-38	EU-38	Pellet Cooler	04-A-701
EP-39	EU-39.1	Truck Meal Loadout - Meal L/O Aspiration	04-A-702
	EU-39.2	Truck Meal Loadout - Millfeed transfer	
EP-40	EU-40.1	Biodiesel Boiler - natural gas	05-A-531-S2
	EU-40.2	Biodiesel Boiler - fuel oil	
	EU-40.3	Biodiesel Boiler - vegetable oil	
	EU-40.4	Biodiesel Boiler - biodiesel	
EP-41	EU-41.1	Biodiesel Process	05-A-532-S2
	EU-41.2	Biodiesel Process - flare gas combustion	
EP-42	EU-42	Glycerin Process	05-A-533-S1
EP-F1	EU-F1	Equipment Leaks	
EP-45	EU-45	Soypass Dryer	12-A-532
	EU-45.1	Soypass Toaster	
EP-F2	EU-F2	Product Loadout	06-A-762-S1
EP-F3	EU-F3	Haul Roads Fugitive	06-A-763-S1
EP-F4	EU-F4	Hexane Emissions from Biodiesel Process	06-A-764-S1

Insignificant Emission Units

Insignificant Emission Unit Number	Insignificant Emission Unit Description
E-Weld	Welding Operation
E-Furn	Office Building Furnace
E-FO1	Fuel Oil Tank
E-FO2	Fuel Oil Tank
E-FO3	Fuel Oil Tank
E-1	Biodiesel Shift Tank
E-2	Biodiesel Storage Tank
E-3	HCl Tank
E-4	Outside Veg. Oil Storage Tank (biodiesel Facility)
E-5	Animal Fats Storage Tank
E-6	3.75 MMBtu/hr Boiler (Natural Gas only) biodiesel Facility
E-7	#2 Fuel Oil Tank at biodiesel Facility
E-8	Cooling Tower 1
E-9	Cooling Tower 2
E-10	Cooling Tower 3
E-11	Cooling Tower 4
E-12	Cooling Tower 5
E-13	Cooling Tower 6
E-14	DE Filtering System
E-Temp1	Soybean Meal Transload
E-15	East Meal Silo Vent Filter Fan
E-16	Meal Receiving Bin Vent Fan
E-17	Exceeds Pro Meal Silo Vent Filter Fan
E-18	Exceeds Pro Meal RLO Bin Vent Filter Fan
E-19	Exceeds Pro Meal TLO Bin Vent Filter Fan
E-20	Soypass Meal Silo Vent Filter Fan
DAF	DAF Unit (Dissolve Air Flotation)
FLARE2	Wastewater Flare

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

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.

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"

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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, tons/hr
EP-01	EU-01.1	Hull Grinding	Soybeans	7.1
	EU-01.2	Pod Grinder		1.5
	EU-01.3	Prep Aspiration Cyclone		118.75
	EU-01.5	Pellet Transfer		10.00

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

Pollutant	lb/hr	tons/yr	Additional Limits	Authority for Requirement
Opacity	NA	NA	40% ⁽¹⁾	567 IAC 23.3(2) "d" DNR Construction Permit 78-A-071-S9
Particulate Matter (PM ₁₀)	0.17	NA	NA	DNR Construction Permit 78-A-071-S9
Particulate Matter (PM)	0.17	NA	0.1 gr/dscf	567 IAC 23.4(7) DNR Construction Permit 78-A-071-S9

(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

Pollutant	lb/hr	tons/yr	Additional Limits	Authority for Requirement
Opacity	NA	NA	40% ⁽²⁾	567 IAC 23.3(2) "d" DNR Construction Permit 78-A-071-S9
Particulate Matter (PM ₁₀)	0.60	NA	NA	DNR Construction Permit 78-A-071-S9
Particulate Matter (PM)	0.60	NA	0.1 gr/dscf	567 IAC 23.4(7) DNR Construction Permit 78-A-071-S9

⁽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 (PM₁₀)

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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, bu/day
EP-4.0	EU-04.1	Meal Grinding	Soybeans	95,000
	EU-04.2	Conveying		95,000
	EU-04.3	Metered Flow Agent	Flow Agent	95,000

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 (PM₁₀)

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

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-07	EU-7.1	Truck Unloading and Conveyance	Soybeans	25,000 bu/hr
	EU-7.2	Grain Transferring Conveyance		5,000 bu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 0%

Authority for Requirement: DNR Construction Permit 75-A-213-S7
567 IAC 23.1(2) "ooo"
40 CFR 60 Subpart DD

Pollutant: Particulate Matter (PM₁₀)

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 – PM₁₀

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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, bu/hr
EP-08	EU-08.1	Grain Cleaning	Soybeans	5,000 (total)
	EU-08.2	Split and Seed Aspiration		250
	EU-08.3	Dryer Aspirator and Aspiration Silo		5,000
	EU-08.4	Conveying		5,000

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 (PM₁₀)

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? 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-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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-09	EU-09.1	Grain Drying	Soybeans	5,000 bu/hr
	EU-09.2	Drying Burner		28.6 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 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 (PM₁₀)

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 (SO₂)

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 (PM₁₀)

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

Associated Emission Unit ID Numbers: EU-11.1, EU-11.2, EU-11.3, EU-11.4, EU-11.5

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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-11	EU-11.1	Cracking	Soybeans	118.75 tons/hr
	EU-11.2	Dehulling and Aspiration		118.75 tons/hr
	EU-11.3	Hull Sifter Cyclone		118.75 tons/hr
	EU-11.4	Hull Aspiration		118.75 tons/hr
	EU-11.5	Conveying		118.75 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): 20% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 86-A-151-S3
567 IAC 23.3(2) "d"

Pollutant: Particulate Matter (PM₁₀)

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 PM₁₀
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 H₂O.

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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-14	EU-14.1	Flaking	Soybeans	118.75 ton/hr
	EU-14.2	Conveying		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): 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 (PM₁₀)

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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-15	EU-15.1	Bulk Loading	Meal/Hulls	95,000 bu/day
	EU-15.2	Conveying		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: 567 IAC 23.2(4) "d"

Pollutant: Particulate Matter (PM₁₀)

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

Associated Emission Unit ID Numbers:EU-26.1, EU-26.2, EU-26.3, EU-26.4, EU-26.5, EU-26.6
Emissions Control Equipment ID Number: None

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-26	EU-26.1	Erie City Boiler	Natural Gas	48.9 MMBtu/hr
	EU-26.2		#2 Fuel Oil (backup)	0.349 Kgal/hr
	EU-26.3		Soybean Oil (backup)	0.349 Kgal/hr
	EU-26.4		Animal Fats (backup)	0.349 Kgal/hr
	EU-26.5		Biodiesel Heavies & Distillates (backup)	26.4 MMBtu/hr
	EU-26.6		Biodiesel (backup)	0.1886 Kgal/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 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 (PM₁₀)

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 (SO₂)

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 (SO₂)

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:

$$\begin{array}{r} \text{Average daily} \\ \text{biodiesel heavies} \\ \text{combustion rate} \\ \text{(gal/hr)} = \end{array} \frac{\text{total biodiesel heavies combusted per day} \\ \text{(gallons)}}{\text{number of hours the biodiesel heavies} \\ \text{combusted per day (hrs)}}$$

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 (PM₁₀)

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.

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-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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-29	EU-29.1	Drying – 4 decks	Soybeans	118.75 ton/hr
	EU-29.2	Cooling – 4 decks		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): 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 (PM₁₀)

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./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 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 (PM₁₀)
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"

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-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"

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-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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-34	EU-34.1	Nebraska Boiler	Natural Gas	78 MMBtu/hr
	EU-34.2		#2 Fuel Oil	0.538 Kgal/hr
	EU-34.3		Vegetable Oil	0.582 Kgal/hr
	EU-34.4		Animal Fats	75.3 MMBtu/hr
	EU-34.5		Biodiesel Heavies & Distillates	0.582 Kgal/hr
	EU-34.6		Biodiesel	0.582 Kgal/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 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 (PM₁₀)

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 (SO₂)

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

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 ⁽³⁾; 10.7 lb/hr ⁽⁴⁾; 15.2 lb/hr ⁽⁵⁾; 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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-34.2	EU-34.21	Nebraska Boiler (Heat Recovery Stack)	Natural Gas	95,000 bu/day
	EU-34.22		#2 Fuel Oil	95,000 bu/day
	EU-34.23		Vegetable Oil	95,000 bu/day
	EU-34.24		Animal Fats	95,000 bu/day
	EU-34.25		Biodiesel Heavies & Distillates	95,000 bu/day
	EU-34.26		Biodiesel	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): 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 (PM₁₀)

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 (SO₂)

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_x)

Emission Limit(s): 4.2 lb/hr ⁽³⁾; 10.7 lb/hr ⁽⁴⁾; 15.2 lb/hr ⁽⁵⁾; 39.4 tons/yr

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

⁽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 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 (PM₁₀)

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

Associated Emission Unit ID Numbers: EP-37.1, EP-37.2, EP-37.3

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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-37	EU-37.1	Soybean CoProduct Receiving	Soybeans	117.6 tons/hr (1 1/3 railcars/hr)
	EU-37.2	Soybean CoProduct Storage	Soybean CoProduct (received and produced)	Rec: 117.6 tons/hr (1 1/3 railcars/hr); Prod: 5 tons/hr
	EU-37.3	Soybean CoProduct Handling		Rec: 117.6 tons/hr (1 1/3 railcars/hr); Prod: 5 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-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 (PM₁₀)

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/dscf

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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-39	EU-39.1	Meal L/O Aspiration	Soybeans Hulls/Meal/ Pellets	250 tons/hr
	EU-39.2	Meal Feed Transfer		250 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-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 (PM₁₀)

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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-40	EU-40.1	Biodiesel Boiler	Natural Gas	0.0325 MMCF/hr
	EU-40.2		Fuel Oil	0.232 Kgal/hr
	EU-40.3		Vegetable Oil	0.251 Kgal/hr
	EU-40.4		Biodiesel	0.251 Kgal/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.

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 (NO_x)

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 (PM₁₀)
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 (SO₂)
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 (PM₁₀)
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 (SO₂)
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"

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-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:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-41	EU-41.1	Biodiesel Process	Biodiesel	90 MMgal/yr
	EU-41.2	Flare Natural Gas Combustion	Natural Gas	0.075 MMCF/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): 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 (PM₁₀)

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 (SO₂)

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
- 40 CFR Part 60 Subpart RRR-*Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes* as specified in §60.700.

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 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, and 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.

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 (PM₁₀)

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 A-General Provisions
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
- 40 CFR Part 60 Subpart RRR-*Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes* as specified in §60.700.

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 (PM₁₀)
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, PM₁₀, and PM_{2.5} emissions;
 5. Twelve-month rolling totals for PM, PM₁₀, 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/m² for that month.
- E. The owner or operator shall calculate and record the monthly haul road emissions (PM and PM₁₀) according to the equation (2) from AP-42 Section 13.2.1.3:

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

- F. The facility shall update monthly the twelve-month rolling total of PM, PM₁₀, 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 PM₁₀, 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.

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-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 (EU41) 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

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 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)*

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions.

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

2. Excess Emissions Reporting

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

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

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

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

- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

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

- a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
- b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
- d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));.
- e. The changes comply with all applicable requirements.
- f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.

567 IAC 22.110(1)

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

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

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

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

2. Minor Title V Permit Modification.

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

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

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

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. 567 IAC 23.2 *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:

Field Office 1

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

Field Office 3

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

Field Office 5

7900 Hickman Road, Suite #200
Windsor Heights, IA 50324
(515) 725-0268

Polk County Public Works Dept.

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

Field Office 2

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

Field Office 4

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

Field Office 6

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

Linn County Public Health

Air Quality Branch
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

V. Appendices:

A. 40 CFR Part 60 Subpart A – General Provisions

<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

C. 40 CFR Part 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984

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>

E. 40 CFR Part 60 Subpart VV – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry

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

F. 40 CFR Part 60 Subpart NNN – Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations

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

G. 40 CFR Part 60 Subpart RRR – Standards of Performance for Volatile Organic Compound Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes

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

H. 40 CFR Part 63 Subpart A – General Provisions

<http://www.ecfr.gov/cgi-bin/text-idx?SID=d6f15996770883a8ad12bded7dc5e1b1&node=sp40.10.63.a&rgn=div6>

I. 40 CFR Part 63 Subpart FFFF – National Emission Standard for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing

<http://www.ecfr.gov/cgi-bin/text-idx?rgn=div6&node=40:13.0.1.1.1.13>

J. 40 CFR Part 63 Subpart GGGG – National Emission Standard for Hazardous Air Pollutants: Solvent Extractions for Vegetable Oil Production

<http://www.ecfr.gov/cgi-bin/text-idx?rgn=div6;node=40%3A13.0.1.1.1.14>

K. 40 CFR 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

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

L. Consent Decree 05-2037JMR/FLN