

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-050R5

Expiration Date:

Permit Renewal Application Deadline:

EIQ Number: 92-0760

Facility File Number: 42-01-003

Responsible Official

Name: Jeff Johnson

Title: Facility Leader

Mailing Address: 602 Industrial Rd., Iowa Falls, IA 50126

Phone #: (765)586-3408

Permit Contact Person for the Facility

Name: Hugo Rodriguez

Title: EHS Specialist

Mailing Address: 602 Industrial Rd., Iowa Falls, IA 50126

Phone #: (641)373-6993

This permit is issued in accordance with 567 Iowa Administrative Code Chapter 24, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

Marnie Stein, Supervisor of Air Operating Permits Section

Date

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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
IAC.....	Iowa Administrative Code
DNR.....	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-050R5

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	Hull grinding	78-A-071-S10
	EU-1.2	Pod Grinder	
	EU-1.3	Prep Aspiration with cyclone	
	EU-1.5	Pellet Transfer System	
	EU-1.6	Pod/Hull Receiving Cyclone	
EP-02	EU-2.1	Bean Rail Unload - Grain Receiving	94-A-523-S2
EP-04	EU-4.1	Meal Grinding	85-A-106-S5
	EU-4.2	Conveying	
	EU-4.3	Metered Flow Agent	
EP-07	EU-7.1	Truck Unloading and Conveyance	75-A-213-S9
	EU-7.2	Grain Transferring Conveyance	
EP-08	EU-8.1	Grain Cleaning - 2	81-A-025-S4
	EU-8.2	Splits & Seeds Aspirator	
	EU-8.3	Dryer Aspirator and Silo	
	EU-8.4	Grain Conveyance	
EP-10	EU-10.1	Bean Truck Dump Aspirator	89-A-105-S6
EP-11	EU-11.1	Cracking	86-A-151-S3
	EU-11.2	Dehulling and Aspiration	
	EU-11.3	Hull Sifter Cyclone	
	EU-11.4	Hull Aspiration	
	EU-11.5	Conveying	
EP-14	EU-14.1	Flaker Aspiration – 10 Flakers	85-A-153-S8
	EU-14.2	Flaker Feed and Discharge Conveyance	
EP-15	EU-15.1	Rail Meal Loadout - Bulk Loading	85-A-107-S2
	EU-15.2	Conveying	
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 Drying	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-S2
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-S1
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 - Transesterification 1 st stage reactor	05-A-532-S3
	EU-41.2	Transesterification 2 nd stage reactor	
	EU-41.3	Ester Washing Column	
	EU-41.4	Ester Drying	
	EU-41.5	Methanol Recovery Column	
	EU-41.6	Glycerin and Water Column	
	EU-41.9	Methanol Storage Tank	
	EU-41.10	Catalyst Storage Tank	
	EU-41.11	Methanol Storage Tank	
EP-42	EU-42	Glycerin Process	05-A-533-S1
EP-F1	EU-F1	Equipment Leaks	

Emission Point	Emission Unit	Emission Unit Description	DNR Construction Permit #
EP-45	EU-45	Soypass Dryer	12-A-532-S1
	EU-45.1	Soypass Toaster	
EP-46	EU-46	Aspiration Filter	23-A-384
EP-47	EU-47	Pod Grinder	23-A-385
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 Natural Gas Boiler at Biodiesel Facility
E-7	Diesel 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
S-Temp2	Temp Boiler

II. Plant-Wide Conditions

Facility Name: Cargill Inc. – Iowa Falls

Permit Number: 99-TV-050R5

Permit conditions are established in accord with 567 Iowa Administrative Code rule 24.108. When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024 and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix B.

Permit Duration

The term of this permit is: Five years from permit issuance

Commencing on:

Ending on:

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 24.110 - 24.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 24.115.

Emission Limits

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

Opacity (visible emissions): 40% opacity

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

Sulfur Dioxide (SO₂): 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter:

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

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

Fugitive Dust: Attainment and Unclassified Areas - 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"

III. Emission Point-Specific Conditions

Facility Name: Cargill Inc. – Iowa Falls

Permit Number: **99-TV-050R5**

Emission Point ID Number: EP-01

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1.1	Hull Grinding	Baghouse (CE 1.0)	Soybeans	7.1 tons/hour	78-A-071-S10
1.2	Pod Grinder			1.5 tons/hour	
1.3	Prep Aspiration with Cyclone			118.75 tons/hour	
1.5	Pellet Transfer System			10.0 tons/hour	
1.6	Pod/Hull Receiving Cyclone			6,000 bushels/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.

Federal Emission Limits

Pollutant	lb/hr	tons/yr	Additional Limits	Authority for Requirement
Opacity	NA	NA	0% ⁽³⁾	567 IAC 23.1(2)" <i>ooo</i> " ⁽²⁾ DNR Construction Permit 78-A-071-S10
Particulate Matter (PM) Federal	NA	NA	0.01 gr/dscf ⁽¹⁾	567 IAC 23.1(2)" <i>ooo</i> " ⁽²⁾ DNR Construction Permit 78-A-071-S10

¹ Per 40 CFR §60.302(b)(1) of Subpart DD, no owner or operator shall cause to be discharged into the atmosphere from any affected facility except a grain dryer any process emission which contains particulate matter in excess of 0.023 g/dscm (0.01 gr/dscf).

² Department's reference to 40 CFR Part 60, Subpart DD – *Standards of Performance for Grain Elevators* [40 CFR §60.300 – 40 CFR §60.304].

³ Per 40 CFR §60.302(b)(2) of Subpart DD, no owner or operator shall cause to be discharged into the atmosphere from any affected facility except a grain dryer any process emission which exhibits greater than 0 percent opacity.

Emission Limits for EU-1.1, EU-1.2, and EU-1.3

Pollutant	lb/hr	tons/yr	Additional Limits	Authority for Requirement
Particulate Matter (PM ₁₀)	0.17	NA	NA	DNR Construction Permit 78-A-071-S10
Particulate Matter (PM)	0.17	NA	0.1 gr/dscf	567 IAC 23.4(7) DNR Construction Permit 78-A-071-S10

Emission Limits for EU-1.1, EU-1.2, EU-1.3, and EU-1.5

Pollutant	lb/hr	tons/yr	Additional Limits	Authority for Requirement
Particulate Matter (PM ₁₀)	0.60	NA	NA	DNR Construction Permit 78-A-071-S10
Particulate Matter (PM)	0.60	NA	0.1 gr/dscf	567 IAC 23.4(7) DNR Construction Permit 78-A-071-S10

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall operate the baghouse (CE-1.00) whenever any of the emission units covered by this permit are in operation.
- 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.
 - (1) The owner or operator shall maintain the following daily records:
 - a. The amount, in bushels, of grain processed at the facility.
 - b. The 365-day rolling average for grain processed at the facility, in bushels per day.
- C. The owner or operator shall conduct visible emissions observations on EP-1.00 once per calendar day. This requirement shall not apply on the days that none of the emission units covered by this permit are operating.
 - (1) The owner or operator shall record the date and time of the observations and the presence or absence of visible emissions.
 - (2) If visible emissions from EP-1.00 are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated equipment.
 - (3) The owner or operator shall maintain a record of all corrective actions taken.
- D. The owner or operator shall operate, inspect, and maintain the baghouse (CE-1.00) according to the manufacturer's specifications and instructions.
 - (1) The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-1.00). At a minimum, this log shall include the following:

- a. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 - b. Any issues identified during inspection and maintenance activities;
 - c. The date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance inspection.
- E. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subparts A (*General Provisions*) and DD (*Standards of Performance for Grain Elevators*), including those not specifically mentioned in this “Collection of Air Permits.”

Authority for Requirement: DNR Construction Permit 78-A-071-S10

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): 6,800

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 78-A-071-S10

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

Monitoring Requirements

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

Stack Testing:

Pollutant - Opacity

Stack Test to be Completed by (date) - ⁽¹⁾

Test Method - 40 CFR 60, Appendix A, Method 9

Authority for Requirement - DNR Construction Permit 78-A-071-S10

Pollutant – Particulate Matter (Federal and State)

Stack Test to be Completed by (date) - ⁽¹⁾

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

Authority for Requirement - DNR Construction Permit 78-A-071-S10

- ⁽¹⁾ Within 60 days after achieving the maximum production rate but not later than 180 days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.

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

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

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

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

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 24.108(3)

Emission Point ID Number: EP-02

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
2.1	Bean Rail Unload – Grain Receiving	Baghouse (CE-2.1)	Soybeans	25,000 bushels/day	94-A-523-S2

Applicable Requirements

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

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

Pollutant: Opacity

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

NSPS 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

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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 40 CFR 60, Appendix A, Method 5; 40 CFR 51, Appendix M, Method 202.
- 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

- 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

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): 5,600

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

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

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

Monitoring Requirements

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

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 (>0 %) 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 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-04

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
4.1	Meal Grinding	Baghouse (CE 4)	Soybeans	95,000 bushels/day (each EU)	85-A-106-S5
4.2	Conveying				
4.3	Metered Flow Agent		Flow Agent		

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-S5
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

Authority for Requirement: DNR Construction Permit 85-A-106-S5

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.29 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 85-A-106-S5
567 IAC 23.4(7)

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).

Authority for Requirement: DNR Construction Permit 85-A-106-S5
40 CFR 63 Subpart A
567 IAC 23.1(4)"a"
40 CFR 63 Subpart GGGG
567 IAC 23.1(4)"cg"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

Authority for Requirement: DNR Construction Permit 85-A-106-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 11.5

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 15,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 85-A-106-S5

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

Monitoring Requirements

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

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

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

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

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 24.108(3)

Emission Point ID Number: EP-07

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
7.1	Truck Unloading and Conveyance	Baghouse (CE 7)	Soybeans	25,000 bushels/hour	75-A-213-S9
7.2	Grain Transferring Conveyance			5,000 bushels/hour	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 0%

Authority for Requirement: DNR Construction Permit 75-A-213-S9
40 CFR 60 Subpart DD
567 IAC 23.1(2) "ooo"

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.33 lb/hr

Authority for Requirement: DNR Construction Permit 75-A-213-S9

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.33 lb/hr

Authority for Requirement: DNR Construction Permit 75-A-213-S9

Pollutant: Particulate Matter (PM) - Federal

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 75-A-213-S9
40 CFR 60 Subpart DD
567 IAC 23.1(2) "ooo"

NSPS 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-S9
40 CFR 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart DD
567 IAC 23.1(2) "ooo"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall operate and maintain the control equipment according to manufacturer's specifications and instructions.
 - i. 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 facility shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.
- C. 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 75-A-213-S9

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 11

Stack Outlet Dimensions, (inches): 24

Exhaust Flow Rate (scfm): 16,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 75-A-213-S9

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

Monitoring Requirements

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

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 (>0 %) 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 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-08

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
8.1	2 Grain Cleaners	Baghouse (CE 8)	Soybeans	5,000 bushels/hour (total)	81-A-025-S4
8.2	Splits and Seeds Aspirator			250 bushels/hour	
8.3	Dryer Aspirator and Silo			5,000 bushels/hour	
8.4	Grain Conveyance			5,000 bushels/hour	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 0%

Authority for Requirement: DNR Construction Permit 81-A-025-S4
40 CFR 60 Subpart DD
567 IAC 23.1(2) "ooo"

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.40 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
40 CFR 60 Subpart DD
567 IAC 23.1(2) "ooo"

NSPS 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
40 CFR 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart DD
567 IAC 23.1(2) "ooo"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

- 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

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

Monitoring Requirements

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

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 (>0 %) 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 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-10**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
10.1	Bean Truck Dump Aspirator	Baghouse (CE 10)	Soybeans	21,250 bushels/hour	89-A-105-S6

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-S6
40 CFR 60 Subpart DD
567 IAC 23.1(2) "ooo"

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.36 lb/hr

Authority for Requirement: DNR Construction Permit 89-A-105-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.36 lb/hr; 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 89-A-105-S6
40 CFR 60 Subpart DD
567 IAC 23.1(2) "ooo"

NSPS 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-S6
40 CFR 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart DD
567 IAC 23.1(2) "ooo"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall operate and maintain the control equipment according to manufacturer's specifications and instructions.
 - i. 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 facility shall not exceed a soybean receiving rate of 21,250 bushels per hour.
- C. The owner or operator shall maintain the following records:
 - i. The amount, in bushels, of soybeans received at the facility per hour.

Authority for Requirement: DNR Construction Permit 89-A-105-S6

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40.3

Stack Outlet Dimensions (inches): 20

Exhaust Flow Rate (scfm): 15,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 89-A-105-S6

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

Monitoring Requirements

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

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 (>0 %) 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 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-11

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
11.1	Cracking	Baghouse (CE 11)	Soybeans	118.75 tons/hr	86-A-151-S3
11.2	Dehulling and Aspiration			118.75 tons/hr	
11.3	Hull Sifter Cyclone			118.75 tons/hr	
11.4	Hull Aspiration			118.75 tons/hr	
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"

⁽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): 0.50 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)

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-14

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
14.1	10 Flakers	Cyclone (CE 14.1)	Soybeans	3958 bushels/hour	83-A-153-S8
14.2	Flaker Feed and Discharge Conveyance			3958 bushels/hour	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 83-A-153-S8
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.35 lb/hr

Authority for Requirement: DNR Construction Permit 83-A-153-S8

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-S8
567 IAC 23.4(7)

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).

Authority for Requirement: DNR Construction Permit 83-A-153-S8
40 CFR 63 Subpart A
567 IAC 23.1(4)"a"
40 CFR 63 Subpart GGGG
567 IAC 23.1(4)"cg"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall operate and maintain the control equipment according to manufacturer's specifications and instructions.
 - i. 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 facility shall not exceed a grain processing rate of 95,000 bushels per day based on a 365-day rolling average.
- C. 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-S8

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40.5

Stack Outlet Dimensions, (inches): 36

Exhaust Flow Rate (scfm): 10,000

Exhaust Temperature (°F): 145

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 83-A-153-S8

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

Monitoring Requirements

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 24.108(3)

Emission Point ID Number: EP-15

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
15.1	Bulk Loading	Baghouse (CE 15)	Meal/Hulls	95,000 bushels/day	85-A-107-S2
15.2	Conveying			95,000 bushels/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 23.3(2) "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/dscf

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-27

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
27.1	Truck Meal Bin Vent	Baghouse (CE 27)	Soybean Hulls	95,000 bushels/day	80-A-101-S3
27.2	Meal Load Out Storage			95,000 bushels/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% ⁽¹⁾

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-29

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
29.1	Drying – 4 decks	Cyclones (CE 29.1-29.6)	Soybeans	118.75 tons/hour	89-A-106-S5
29.2	Cooling – 4 decks			118.75 tons/hour	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 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)

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).

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

40 CFR 63 Subpart A

567 IAC 23.1(4)"a"

40 CFR 63 Subpart GGGG

567 IAC 23.1(4)"cg"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-30

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
30.1	Bean Conditioning	Soybeans	118.75 tons/hour	94-A-534-S3

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)

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

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

Monitoring Requirements

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

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 (>20 %) 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 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-31

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
31.1	Spent Flake Storage	Baghouse (CE 31)	Soybeans	118.75 tons/hour	93-A-041-S5

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"

⁽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): 0.04 lb/hr

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

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.04 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 93-A-041-S5
567 IAC 23.4(7)

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).

Authority for Requirement: DNR Construction Permit 93-A-041-S5
40 CFR 63 Subpart A
567 IAC 23.1(4)"a"
40 CFR 63 Subpart GGGG
567 IAC 23.1(4)"cg"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

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

Monitoring Requirements

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

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 (>20 %) 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 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-32

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
32.1	Extraction Process	Mineral Oil Absorber (CE 32)	Soybeans	118.75 tons/hour	97-A-327-S5

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.

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
40 CFR 60 Subpart A
567 IAC 23.1(2)
567 IAC 23.1(2)"ddd"
40 CFR 63 Subpart A
567 IAC 23.1(4)"a"
40 CFR 63 Subpart GGGG
567 IAC 23.1(4)"cg"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

- 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 under Emission Limits.
- C. Maintain SDS 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

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

Monitoring Requirements

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

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

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

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

Monitoring and recordkeeping contained in 40 CFR 63 Subpart GGGG fulfills the requirements for CAM.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-34

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
34.1	Nebraska Boiler	Flue Gas Recirculation (CE 34)	Natural Gas	78 MMBtu/hour	98-A-389-S3
34.2			#2 Fuel Oil	0.538 Kgal/hour	
34.3			Vegetable Oil	0.582 Kgal/hour	
34.4			Animal Fats	75.3 MMBtu/hour	
34.5			Biodiesel Heavies and Distillates	0.582 Kgal/hour	
34.6			Biodiesel	0.582 Kgal/hour	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 98-A-389-S3
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"III"

⁽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).

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: DNR Construction Permit 98-A-389-S3

40 CFR 60 Subpart A

567 IAC 23.1(2)

40 CFR 60 Subpart Dc

567 IAC 23.1(2)"III"

40 CFR 63 Subpart A

567 IAC 23.1(4)"a"

40 CFR Part 63 Subpart DDDDD

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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 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

- 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 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 60.48c(f).

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

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

Monitoring Requirements

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

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 (>20 %) 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 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-34.2

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
34.21	Nebraska Boiler (Heat Recovery Stack)	Flue Gas Recirculation (CE 34)	Natural Gas	78 MMBtu/hour	02-A-387-S1
34.22			#2 Fuel Oil	0.538 Kgal/hour	
34.23			Vegetable Oil	0.582 Kgal/hour	
34.24			Animal Fats	75.3 MMBtu/hour	
34.25			Biodiesel Heavies and Distillates	0.582 Kgal/hour	
34.26			Biodiesel	0.582 Kgal/hour	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-387-S1
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"III"

⁽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: Sulfur Dioxide (SO₂)⁽¹⁾
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
⁽³⁾ Limit is for natural gas.

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).

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: DNR Construction Permit 02-A-387-S1
40 CFR 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"III"
40 CFR 63 Subpart A
567 IAC 23.1(4)"a"
40 CFR Part 63 Subpart DDDDD

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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 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

- 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 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 60.48c(f).

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

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

Monitoring Requirements

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

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 (>20 %) 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 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-35

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
35.1	Flow Agent Storage Tank	Baghouse (CE 35.00)	Flow Agent; 100,000 lb/week (maximum usage)	0.2976 tons/hour	01-A-016-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: DNR Construction Permit 01-A-016-S2
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): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 01-A-016-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): 31.3

Stack Opening, (inches): 13 x 13

Exhaust Flow Rate (scfm): 650

Exhaust Temperature (°F): Ambient

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 01-A-016-S2

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-36

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
36.1	Meal Storage Tank	Bagfilter (CE 36)	Soybeans	95,000 bushels/day	03-A-779

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-37

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
37.1	Soybean CoProduct Receiving	Bagfilter (CE 37)	Soybean Product Received	117.6 tons/hr (1 1/3 railcars/hr)	04-A-062-S3
37.2	Soybean CoProduct Storage		Soybean Product Received and produced	Rec: 117.6 tons/hr (1 1/3 railcars/hr); Prod: 5 tons/hr	
37.3	Soybean CoProduct Handling		Soybean Product Received and produced	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)

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-38

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
38	Pellet Cooler	Cyclone (CE 38)	Soybeans	10 tons/hour	04-A-701-S1

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-S1
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-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf; 0.47 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-701-S1
567 IAC 23.4(7)

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).

Authority for Requirement: DNR Construction Permit 04-A-701-S1
40 CFR 63 Subpart A
567 IAC 23.1(4)"a"
40 CFR 63 Subpart GGGG
567 IAC 23.1(4)"cg"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall operate and maintain the control equipment according to manufacturer's specifications and instructions.
 - i. 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 pellet cooler shall not be operated at a capacity higher than 10 tons per hour.
 - i. The owner or operator shall maintain records of the operation capacity of the pellet cooler.

Authority for Requirement: DNR Construction Permit 04-A-701-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Outlet Dimensions, (inches): 16

Exhaust Flow Rate (scfm): 5,500

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 04-A-701-S1

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

Monitoring Requirements

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

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

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

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

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 24.108(3)

Emission Point ID Number: EP-39

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
39.1	Meal L/O Aspiration	Bagfilter (CE 39)	Soybean Hulls/Meal/Pellets	250 tons/hour	04-A-702
39.2	Truck Meal Loadout			250 tons/hour	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-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): 0.1 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 flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-40**Associated Equipment**

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
40.1	Biodiesel Boiler	Natural Gas	50.212 MMBtu/hour	05-A-531-S2
40.2		Fuel Oil (backup)	0.232 Kgal/hour	
40.3		Vegetable Oil (backup)	0.251 Kgal/hour	
40.4		Biodiesel (backup)	0.251 Kgal/hour	

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

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

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): 0.030 lb/MMBtu

Authority for Requirement: DNR Construction Permit 05-A-531-S2
40 CFR 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"III"

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 A
567 IAC 23.1(2)
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"III"

⁽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
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): 0.200 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

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: DNR Construction Permit 05-A-531-S2
40 CFR 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"III"
40 CFR Part 63 Subpart DDDDD

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

- 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 General Condition G14 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

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

Monitoring Requirements

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

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

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 (>20 % for fuel oil; >40% for Vegetable oil and biodiesel) 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 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-41

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
41.1	Transesterification 1 st Stage Reactor	Scrubber (CE 41.2)	Biodiesel	90 MM gallons/year	05-A-532-S3
41.2	Transesterification 2 nd Stage Reactor				
41.3	Ester Washing Column				
41.4	Ester Dryer				
41.5	Methanol Recovery Column				
41.6	Glycerin and Water Column				
41.9	Methanol Storage Tank				
41.10	Catalyst Storage Tank				
41.11	Methanol Storage Tank				

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 1.37 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-532-S3

Pollutant: Total Organic Hazardous Air Pollutants (HAP) – Continuous Process Vents

Emission Limit(s): 0.10 lb/hr ⁽¹⁾

Authority for Requirement: DNR Construction Permit 05-A-532-S3

⁽¹⁾ The emission limit applies to the continuous process vents, as defined in §63.2550, for the biodiesel process that are vented to the scrubber and EP-41, which excludes the emissions from storage tanks.

Pollutant: Total Organic Hazardous Air Pollutants (HAP) – Storage Tanks

Emission Limit(s): ⁽²⁾

Authority for Requirement: DNR Construction Permit 05-A-532-S3

40 CFR 63 Subpart A

567 IAC 23.1(4)"a"

40 CFR 63 Subpart FFFF

567 IAC 23.1(4)"cf"

⁽²⁾ The emission limit is for Group 1 Storage Tanks in Table 4 to Subpart FFFF of Part 63 – *Emission Limits for Storage Tanks*. The facility must reduce total HAP emissions by ≥ 95 percent by weight or to ≤ 20 ppm_v of TOC or organic HAP by venting emissions through a closed vent system to any combination of control devices (excluding a flare). The facility shall be in compliance with the emission limit at all times, except during periods of startup, shutdown, and malfunction (SSM).

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 - §60.117b;
- 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 - §60.489;
- 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 - §60.668; 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 - §60.708.

This process is subject to National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63 Subpart A – *General Provisions*, as specified in §63.1 - §63.15 and Subpart FFFF- *Miscellaneous Organic Chemical Manufacturing*, as specified in §63.2430 - §63.2550.

Authority for Requirement: DNR Construction Permit 05-A-532-S3

40 CFR 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart Kb
567 IAC 23.1(2)"ddd"
40 CFR 60 Subpart VV
567 IAC 23.1(2)"nn"
40 CFR 60 Subpart NNN
567 IAC 23.1(2)"kkk"
40 CFR 60 Subpart RRR
567 IAC 23.1(2)"qqq"
40 CFR 63 Subpart A
567 IAC 23.1(4)"a"
40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

General Operating Limits and Recordkeeping Requirements

- A. All process and control equipment shall be operated and maintained according to manufacturer specifications and maintenance schedule.
 - (1) The owner or operator shall keep a record of all inspections and maintenance and any actions resulting from the inspections and maintenance for all the process and control equipment for this process.
- B. The facility shall produce a maximum of 90 million gallons of biodiesel per rolling 12-month

period.

- (1) 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.

NESHAP Requirements

- C. The owner or operator shall comply with the applicable requirements in 40 CFR Part 63, Subparts A [§63.1 - §63.15] and FFFF [§63.2430 - §63.2550], including those not specifically mentioned in this permit.
- D. As required by 40 CFR §63.6(e), the owner or operator shall develop and implement a written startup, shutdown, and malfunction (SSM) plan.
- E. Per 40 CFR §63.2450(a), the owner or operator of equipment associated with continuous process vents, as defined in §63.2550, shall comply with the applicable emission limits and work practice standards in Table 1 to Subpart FFFF of Part 63 at all times, except during periods of SSM, and the requirements specified in §§63.2455.
- F. Per 40 CFR §63.2450(a), the owner or operator of equipment associated with Storage Tanks, as defined in §63.2550, shall comply with the applicable emission limits in Table 4 to Subpart FFFF of Part 63 at all times, except during periods of SSM, and the requirements specified in §63.2470.
- G. Per 40 CFR §63.2450(e)(1), the owner or operator reducing organic HAP emissions through a closed-vent system to any combination of control devices (except a flare) or recovery devices, must meet the requirements of §63.982(c) and the requirements referenced therein.
- H. Per §63.982(c), the owner or operator shall meet the requirements in § 63.983 for closed vent systems, and the applicable recordkeeping and reporting requirements of §63.998 and §63.999.
- I. Per §63.982(c)(1), for storage vessels, the owner or operator shall meet the requirements in §63.985 for nonflare control devices and the monitoring, recordkeeping, and reporting requirements referenced therein. The owner or operator shall establish operating limits, conduct monitoring, and keep records, as specified in §63.2470(c).
- J. Per §63.982(c)(3), for equipment leaks, the owner or operator shall meet the requirements in § 63.986 for nonflare control devices used for equipment leak emissions and the monitoring, recordkeeping, and reporting requirements referenced therein. No other provisions of this subpart apply to equipment leak emissions vented through a closed vent system to a nonflare control device.
- K. Per §63.982(e), owners or operators who use a final recovery device to maintain a TRE above a level specified in a referencing subpart shall meet the requirements in §63.993 and the monitoring, recordkeeping, and reporting requirements referenced therein that are applicable to the recovery device being used; the applicable monitoring requirements in §63.996 and the recordkeeping and reporting requirements referenced therein; and the applicable recordkeeping and reporting requirements of §63.998 and §63.999.
- L. Per 63.2450(k)(5), the owner or operator shall conduct monitoring and recordkeeping for the scrubber as specified below:
 - (1) Use a flow meter capable of providing a continuous record of the absorber influent liquid flow.
 - (2) Determine gas stream flow using one of the procedures specified in §63.994(c)(1)(ii)(A) through (D).
 - (3) Record the absorber liquid-to-gas ratio averaged over the time period of any performance

test.

- M. The owner or operator shall conduct the monitoring per §63.996 and §63.2450(k). As specified in §63.996(c), the following conditions for the monitoring system shall be followed:
- (1) All monitoring equipment shall be installed, calibrated, maintained, and operated according to manufacturer's specifications or other written procedures that provide adequate assurance that the equipment would reasonably be expected to monitor accurately.
 - (2) The owner or operator shall maintain and operate the equipment in a manner consistent with good air pollution control practices.
 - (a) The owner or operator shall ensure the immediate repair or replacement of parts to correct "routine" or otherwise predictable equipment malfunctions. The necessary parts for routine repairs of the affected equipment shall be readily available.
 - (b) The owner or operator shall develop and follow a start-up, shutdown, and malfunction plan, and equipment must be repaired immediately, this action shall be recorded as specified in §63.998(c)(1)(ii)(E).
 - (3) All monitoring equipment shall be installed and operational, and the data verified as specified in Subpart FFFF or SS either prior to or in conjunction with conducting performance tests. Verification of operational status shall, at a minimum, include completion of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system or other written procedures that provide adequate assurance that the equipment would reasonably be expected to monitor accurately.
 - (4) All monitoring equipment shall be installed such that representative measurements of parameters from the regulated source are obtained.
 - (5) In accordance with the 40 CFR Part 63 Subpart FFFF, except for system breakdowns, repairs, maintenance periods, instrument adjustments, or checks to maintain precision and accuracy, calibration checks, and zero and span adjustments, the temperature monitoring systems shall be in continuous operation when emissions are being routed to the monitored device.
 - (6) The owner or operator shall establish a range for monitored parameters that indicates proper operation of the scrubber. In order to establish the range, the information required in §63.999(b)(3) shall be submitted in the Notification of Compliance Status or the operating permit application or amendment. The range may be based upon a prior performance test meeting the specifications of §63.997(b)(1) or a prior TRE index value determination, as applicable, or upon existing ranges or limits established under 40 CFR Part 63 Subpart FFFF.
- N. The owner or operator shall meet all of the applicable recordkeeping requirements for the monitoring system, as specified in 40 CFR Part 63 Subpart FFFF, §63.2525, §63.998(b), §63.998(c) and §63.998(d), and the requirements referenced therein. This includes records of the daily average value of the monitored parameters that indicates proper operation of the Scrubber (CE-41) for each operating day determined according to the procedures specified in §63.998(b)(3)(i) and (ii) and records of periods when the monitored parameters drops below the operating range established pursuant to § 63.996(c)(6) as specified in §63.998(d).
- O. The owner or operator shall comply with the applicable notification, reporting, and recordkeeping requirements in 40 CFR §63.2515, §63.2520, and §63.2525, respectively.

Control Equipment Requirements

- P. The owner or operator shall operate the control equipment (Scrubber, CE 41.2) at all times any of the equipment covered under this permit is in operation.
- Q. The owner or operator shall inspect and maintain the scrubber according to the manufacturer's specifications and/or the facility's operation and maintenance plan.
 - (1) The owner or operator shall keep a log of all maintenance and inspection activities performed on the scrubber. At a minimum, this log shall include the following:
 - (a) The date that any inspection and/or maintenance was performed on the scrubber;
 - (b) Any issues identified during inspection;
 - (c) Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - (d) Identification of the staff member performing the maintenance or inspection.
- R. The owner or operator shall only use fresh water as a scrubbant for the top layer of packing in the scrubber.
- S. The owner or operator shall maintain a 3-hour block average fresh water feed rate (in pounds per hour) into the top layer of the packing in the scrubber at or above the average rate observed during the most recent compliance test that demonstrated compliance with all applicable emission limitations.
 - (1) The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the fresh water feed rate (in pounds per hour) into the top layer of the packing in the scrubber. This equipment shall be installed, operated, and maintained in accordance with the facility's operation and maintenance plan.
 - (2) The owner or operator shall collect and record the fresh water feed rate (in pounds per hour) into the top layer of the packing in the scrubber at a minimum of once every 15 minutes and calculate and record the 3-hour block average fresh water feed rate (in pounds per hour) into the top layer of the packing in the scrubber. The average shall be calculated using all data points collected during the averaging period.
 - (3) If any of the fresh water feed rate (in pounds per hour) 3-hour block averages falls below the minimum required value, the owner or operator shall record the time, date, and actions taken to correct the situation and shall record when the average fresh water feed rate is back at or above the minimum required value.
 - (4) Use of a lower fresh water feed rate requires the owner or operator to first obtain a variance to test the lower water feed rate. The owner or operator shall submit the test results to the Department for review and approval. Once approved, the owner or operator shall be allowed to use the lower fresh water feed rate.
- T. The owner or operator shall maintain a 3-hour block average recirculated water feed rate (in pounds per hour) into the bottom layer of the packing in the scrubber at or above the average rate observed during the most recent compliance test that demonstrated compliance with all applicable emission limitations.
 - (1) The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the recirculated water feed rate (in pounds per hour) into the bottom layer of the packing in the scrubber. This equipment shall be installed, operated, and maintained in accordance with the facility's operation and maintenance plan.
 - (2) The owner or operator shall collect and record the recirculated water feed rate (in pounds per hour) into the bottom layer of the packing in the scrubber at a minimum of once every 15 minutes and calculate and record the 3-hour block average recirculated water feed

- rated into the bottom layer of the packing in the scrubber. The average shall be calculated using all data points collected during the averaging period.
- (3) If any of the recirculated water feed rate (in pounds per hour) 3-hour block averages is less than the required minimum value, the owner or operator shall record the time, date, and actions taken to correct the situation and shall record when the average water feed rate is back at or above the required minimum value.
 - (4) Use of a lower recirculated water feed rate requires the owner or operator to first obtain a variance to test the higher recirculated water feed rate. The owner or operator shall submit the test results to the Department for review and approval. Once approved, the owner or operator shall be allowed to use the lower recirculated water feed rate.
- U. The owner or operator shall maintain on-site a copy of the most recent compliance test that demonstrated compliance with all applicable emission limitations. At a minimum, this report shall include:
- (1) The average fresh water feed rate (in pounds per hour) into the top layer of the packing of the scrubber during the test;
 - (2) The recirculated water feed rate (in pounds per hour) into the bottom layer of the packing of the scrubber during the test.
- V. 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.
- W. 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.
- X. 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.
- Y. 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.

Authority for Requirement: DNR Construction Permit 05-A-532-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 75.5

Stack Outlet Dimensions, (inches, diameter): 3

Exhaust Flow Rate (scfm): 20 – Continuous Process Vents – Normal Operation
45 – Process and Truck Loadout

Exhaust Temperature (°F): 65

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 05-A-532-S3

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-42

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
42.1	Glycerin Process	Glycerin	10 MMgal/year	05-A-533-S1

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: Hazardous Air Pollutant, Single (SHAP) - Methanol

Emission Limit(s): 0.10 lb/hr

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

Pollutant: Hazardous Air Pollutant, Total (THAP)

Emission Limit(s): 0.10 lb/hr

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

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 VV – *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Manufacturing Industry* as specified in §60.480 - §60.489.
- 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 - §60.668.

This emission unit is subject to National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63 Subpart A – *General Provisions*, as specified in §63.1 - §63.15 and Subpart FFFF- *Miscellaneous Organic Chemical Manufacturing*, as specified in §63.2540 (Table 12). 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
40 CFR 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart VV
567 IAC 23.1(2)"nn"
40 CFR 60 Subpart NNN
567 IAC 23.1(2)"kkk"
40 CFR 63 Subpart A
567 IAC 23.1(4)"a"
40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

- 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

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-45

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
45	Soypass Dryer	Cyclones (CE 45A, 45B, 45C)	Soybean Meal	20 tons/hour	12-A-532-S1
45.1	Soypass Toaster	NA		20 tons/hour	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 12-A-532-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 1.89 lb/hr

Authority for Requirement: DNR Construction Permit 12-A-532-S1

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 2.83 lb/hr

Authority for Requirement: DNR Construction Permit 12-A-532-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.83 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 12-A-532-S1
567 IAC 23.4(7)

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall operate and maintain Cyclone (CE 45A), Cyclone (CE 45B), and Cyclone (CE 45C) according to the manufacturer specifications. The owner or operator shall maintain a log of all maintenance and inspection activities performed on Cyclone (CE 45A), Cyclone (CE 45B), and/or Cyclone (CE 45C). This log shall include, but is not necessarily limited to:
 - i. The date and time any inspection and/or maintenance was performed on the Cyclone (CE 45A), Cyclone (CE 45B), and/or Cyclone (CE 45C);
 - ii. Any issues identified during the inspection and the date each issue was resolved;
 - iii. Any issues identified during the maintenance activities and the date each issue was resolved; and
 - iv. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 12-A-532-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 153

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): 22,000

Exhaust Temperature (°F): 120

Discharge Style: Unobstructed Vertical

Authority for Requirement: DNR Construction Permit 12-A-532-S1

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

Monitoring Requirements

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

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

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

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

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 24.108(3)

Emission Point ID Number: EP-46

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): EU-46

Emissions Control Equipment ID Number: CE-46

Emissions Control Equipment Description: Baghouse

Continuous Emissions Monitors ID Numbers: N/A

Emission Unit vented through this Emission Point: EU-46

Emission Unit Description: Aspiration Filter

Raw Material/Fuel: Soybeans

Rated Capacity: 6,000 Bushels/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% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 23-A-384
40 CFR §60.302(b)(2)
567 IAC 23.1(2)“ooo”

⁽¹⁾ Per 40 CFR §60.302(b)(2) of Subpart DD, no owner or operator shall cause to be discharged into the atmosphere from any affected facility except a grain dryer any process emission which exhibits greater than 0 percent opacity.

Pollutant: Particulate Matter (PM) - Federal

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 23-A-384
40 CFR §60.302(b)(2)
567 IAC 23.1(2)“ooo”

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.1 gr/dscf, 0.13 lb/hr

Authority for Requirement: DNR Construction Permit 23-A-384
567 IAC 23.4(7)

NSPS 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 23-A-384

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall operate the baghouse (CE-46) whenever the Aspirator Filter (EU-46) is in operation.
- 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.
 - (1) The owner or operator shall maintain the following daily records:
 - a. The amount, in bushels, of grain processed at the facility.
 - b. The 365-day rolling average for grain processed at the facility, in bushels per day.
- C. The owner or operator shall conduct visible emissions observations on EP-46 once per calendar day. This requirement shall not apply on the days that none of the emission units covered by this permit are operating.
 - (1) The owner or operator shall record the date and time of the observations and the presence or absence of visible emissions.
 - (2) If visible emissions from EP-46 are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated equipment.
 - (3) The owner or operator shall maintain a record of all corrective actions taken.
- D. The owner or operator shall operate, inspect, and maintain the baghouse (CE-46) according to the manufacturer's specifications and instructions.
 - (1) The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-46). At a minimum, this log shall include the following:
 - a. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 - b. Any issues identified during inspection and maintenance activities;
 - c. The date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance inspection.
- E. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subparts A (*General Provisions*) and DD (*Standards of Performance for Grain Elevators*), including those not specifically mentioned in this "Collection of Air Permits."

Authority for Requirement: DNR Construction Permit 23-A-384

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 18.75 x 11

Exhaust Flow Rate (scfm): 5,200

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permit 23-A-384

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

Monitoring Requirements

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

Stack Testing:

Pollutant - Opacity

Stack Test to be Completed by (date) - ⁽¹⁾

Test Method - 40 CFR 60, Appendix A, Method 9

Authority for Requirement - DNR Construction Permit 23-A-384

Pollutant – Particulate Matter (Federal and State)

Stack Test to be Completed by (date) - ⁽¹⁾

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

Authority for Requirement - DNR Construction Permit 23-A-384

⁽¹⁾ Within 60 days after achieving the maximum production rate but not later than 180 days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.

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

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

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

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

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 24.108(3)

Emission Point ID Number: EP-47

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): EU-47

Emissions Control Equipment ID Number: CE-47

Emissions Control Equipment Description: Baghouse

Continuous Emissions Monitors ID Numbers: N/A

Emission Unit vented through this Emission Point: EU-47

Emission Unit Description: Aspiration Filter

Raw Material/Fuel: Soybeans

Rated Capacity: 6,000 Bushels/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 23-A-385
567 IAC 23.3(2)“d”

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf, 0.13 lb/hr

Authority for Requirement: DNR Construction Permit 23-A-385
567 IAC 23.4(7)

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall operate the baghouse (CE-47) whenever the Pod Grinder (EU-47) is in operation.
- 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.
 - (1) The owner or operator shall maintain the following daily records:
 - a. The amount, in bushels, of grain processed at the facility.
 - b. The 365-day rolling average for grain processed at the facility, in bushels per day.
- C. The owner or operator shall conduct visible emissions observations on EP-47 once per calendar day. This requirement shall not apply on the days that none of the emission units covered by this permit are operating.
 - (1) The owner or operator shall record the date and time of the observations and the presence or absence of visible emissions.
 - (2) If visible emissions from EP-47 are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated equipment.
 - (3) The owner or operator shall maintain a record of all corrective actions taken.
- D. The owner or operator shall operate, inspect, and maintain the baghouse (CE-47) according to the manufacturer's specifications and instructions.
 - (1) The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-47). At a minimum, this log shall include the following:
 - a. The date that any inspection and/or maintenance was performed on the control equipment;
 - ii. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 - b. Any issues identified during inspection and maintenance activities;
 - c. The date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance inspection.

Authority for Requirement: DNR Construction Permit 23-A-384

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 18.5 x 11

Exhaust Flow Rate (scfm): 5,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permit 23-A-385

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

Monitoring Requirements

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

Stack Testing:

Pollutant – Particulate Matter

Stack Test to be Completed by (date) - ⁽¹⁾

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

Authority for Requirement - DNR Construction Permit 23-A-385

⁽¹⁾ Within 60 days after achieving the maximum production rate but not later than 180 days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.

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

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

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

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

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 24.108(3)

Emission Point ID Number: EP-48.1, EP-48.2, EP-48.3, EP-48.4

Associated Equipment

EU ID	Emission Unit Description	Maximum Design Capacity	Control Equipment Description and ID	EP ID	Stack Testing	Permit No.
EU-48	Column Grain Dryer	6,000 bushels/hour (180 tons/hour)	None	EP-48.1	Yes	23-A-386
		Burner #1: 28 MMBtu/hour, natural gas		EP-48.2	Yes	23-A-387
		Burner #2: 18 MMBtu/hour, natural gas		EP-48.3	Yes	23-A-388
				EP-48.4	Yes	23-A-389

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 0% ⁽¹⁾

Authority for Requirement: DNR Construction Permits 23-A-386, 23-A-387, 23-A-388, 23-A-389
40 CFR §60.302(a)(1)
567 IAC 23.1(2)“ooo”

⁽¹⁾ Per 40 CFR §60.302(a)(1) of Subpart DD, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any gases which exhibits greater than 0 percent opacity from any column dryer with column plate perforation exceeding 2.4 mm diameter (ca. 0.094 inch).

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.64 lb/hr

Authority for Requirement: DNR Construction Permits 23-A-386, 23-A-387, 23-A-388, 23-A-389

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.84 lb/hr

Authority for Requirement: DNR Construction Permits 23-A-386, 23-A-387, 23-A-388, 23-A-389

Pollutant: Particulate Matter (PM)

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

Authority for Requirement: DNR Construction Permits 23-A-386, 23-A-387, 23-A-388, 23-A-389
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppm_v

Authority for Requirement: DNR Construction Permits 23-A-386, 23-A-387, 23-A-388, 23-A-389
567 IAC 23.3(3)“e”

NSPS Applicability

These emission points are 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 Permits 23-A-386, 23-A-387, 23-A-388, 23-A-389

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. Due to the changes evaluated under Project No. 23-257, the owner or operator shall decommission the existing column grain dryer (EP-9) within 180 days from the startup of the Column Grain Dryer (EU-48).
 - (1) The owner or operator shall record the date the existing column grain dryer (EP-9) is decommissioned.
 - (2) The owner or operator shall rescind Permit No. 81-A-023-S6 within 30 days of decommissioning the existing column grain dryer (EP-9).

General Requirements

- A. The owner or operator shall maintain the Column Grain Dryer (EU-48) according to manufacturer's specifications and instructions.
 - (1) 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 Grain Dryer (EU-48).
- B. The owner or operator shall use natural gas as the only fuel for the Column Grain Dryer (EU-48).
 - (1) The owner or operator shall maintain a record of the type of fuel burned in the Column Grain Dryer (EU-48).
 - (2) Prior to burning any other fuel in the Column Grain Dryer (EU-48), the owner or operator shall apply for and obtain an amended construction permit from the Department.
- C. The owner or operator shall not exceed a grain processing rate of 95,000 bushels per day, based on a 365-day rolling average.
 - (2) The owner or operator shall maintain the following daily records:
 - a. The amount, in bushels, of grain processed at the facility.
 - b. The 365-day rolling average for grain processed at the facility, in bushels per day.
- D. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subparts A (*General Provisions*) and DD (*Standards of Performance for Grain Elevators*), including those not specifically mentioned in this "Collection of Air Permits."

Authority for Requirement: DNR Construction Permits 23-A-386, 23-A-387, 23-A-388, 23-A-389

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

EP ID	Stack Height (feet)	Discharge Style	Stack Opening (inches)	Stack Temperature (°F)	Exhaust Flowrate (scfm)
EP-48.1	114	Vertical, unobstructed	106.25 x 27.5	131	48,759
EP-48.2	114	Vertical, unobstructed	101.75 x 27.5	131	48,759
EP-48.3	114	Vertical, unobstructed	101.75 x 27.5	131	48,759
EP-48.4	114	Vertical, unobstructed	106.25 x 27.5	131	48,759

Authority for Requirement: DNR Construction Permits 23-A-386, 23-A-387, 23-A-388, 23-A-389

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

Monitoring Requirements

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

Stack Testing:

Pollutant - Opacity

Stack Test to be Completed by (date) - ⁽¹⁾⁽²⁾⁽³⁾

Test Method - 40 CFR 60, Appendix A, Method 9

Authority for Requirement - DNR Construction Permits 23-A-386, 23-A-387, 23-A-388, 23-A-389

Pollutant – Particulate Matter (Federal and State)

Stack Test to be Completed by (date) - ⁽¹⁾⁽²⁾⁽³⁾

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

Authority for Requirement - DNR Construction Permits 23-A-386, 23-A-387, 23-A-388, 23-A-389

⁽¹⁾ Within 60 days after achieving the maximum production rate but not later than 180 days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.

⁽²⁾ To demonstrate compliance with the Opacity emission limit in Permit Condition 1, Table 2, and with the PM, PM₁₀, and PM_{2.5} emission limits in Permit Condition 1, Table 3, the owner or operator shall *either* conduct testing on Emission Points 48.1, 48.2, 48.3, *and* 48.4 *or* conduct representative testing on one emission point, i.e., either 48.1, 48.2, 48.3, *or* 48.4. If the owner or operator decides to conduct representative testing, the test results for the tested emission point shall be considered *representative* for the other three emission points.

⁽³⁾ The owner or operator may conduct stack testing for total particulate matter (40 CFR 60, Appendix M, Method 5 and 40 CFR 51, Appendix M, Method 202) to demonstrate compliance with the PM₁₀ and PM_{2.5} emission limits in Permit Condition 1, Table 3.

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-F1**Associated Equipment**

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
F1	Equipment Leaks	Biodiesel	NA	Permitted under EP-41

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.

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 Subpart A
567 IAC 23.1(4)"a"
40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

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 24.108(3)

Emission Point ID Number: EP-F2

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
F2	Product Loadout	Biodiesel	90 MMgal/year	06-A-762-S1

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

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 VV-*Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Manufacturing Industry*, as specified in §60.480 - §60.489;
- 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 - §60.668; 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 - §60.708.

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

40 CFR 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart VV
567 IAC 23.1(2)"nn"
40 CFR 60 Subpart NNN
567 IAC 23.1(2)"kkk"
40 CFR 60 Subpart RRR
567 IAC 23.1(2)"qqq"
40 CFR 63 Subpart A
567 IAC 23.1(4)"a"
40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

- 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

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 24.108(3)

Emission Point ID Number: EP-F3

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
F3	Haul Roads Fugitive	Silt	10 miles/hour	06-A-763-S1

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

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

- 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 24.108(3)

Emission Point ID Number: EP-F4

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
F4	Hexane Emissions from Biodiesel Process	Biodiesel	60 MMgallons/year	06-A-764-S1

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 ⁽¹⁾

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

⁽¹⁾Limit is for VOCs emissions resulting from residual extraction solvent contained in the oil received from outside suppliers, all VOCs from oil produced at this plant (48-01-008) are accounted for in the permit for the extraction process (EU32/EP32).

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 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-764-S1

40 CFR 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart VV
567 IAC 23.1(2)"nn"
40 CFR 60 Subpart NNN
567 IAC 23.1(2)"kkk"
40 CFR 60 Subpart RRR
567 IAC 23.1(2)"qqq"
40 CFR 63 Subpart A
567 IAC 23.1(4)"a"
40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

Operating Requirements with Associated Monitoring 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

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

- 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 24.108(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 (IAC). When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024, and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix B.

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 24.108(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 24.105(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 24.108(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 24.108(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 24.108(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 24.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—24.104(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—24.105(455B). *567 IAC 24.116(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. 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 24.105(2). *567 IAC 24.105*

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 24.107(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 24.108(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 24.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. 567 IAC 24.108 (5)

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 24.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 24.115(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 24.108 (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 24.108 (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 21.8(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 24.108(4), 567 IAC 24.108(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 24;
- b. Compliance test methods specified in 567 Chapter 21; 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 24.108(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 21.10(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 21.10(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 21.7(1)-567 IAC 21.7(4)*

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 24.108(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 24.
- 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—24.140(455B) through 567 - 24.144(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 24.110(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 24.110(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 24.110(1). *567 IAC 24.110(3)*

4. The permit shield provided in subrule 24.108(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 24.110(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 24.108(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 - 24.113(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 24.107(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 24.107(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 24.112(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 24, 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 24.111-567 IAC 24.113*

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 24.108(7)*

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

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program.
40 CFR part 82

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 24.108(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 24.108(17)"a", 567 IAC 24.108(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 24.114*

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 24.114*

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 24.114*

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 24.108 (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 24.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 24.108 (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 24.111(1)*. *567 IAC 24.111 (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 (42 days) 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
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 343-6589

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 21.10(7)"a", 567 IAC 21.10(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons. *567 IAC 26.1(1)*

G32. Contacts List

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

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

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 313-8325

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

Field Office 1

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

Field Office 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 725-0268

Field Office 6

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

Polk County Public Works Dept.

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

Linn County Public Health

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

V. Appendix A – Links to Standards:

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=d6f15996770883a8ad12bdeb7dc5e1b1&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>

VI. Appendix B – Executive Order 10 (EO10) Rules Crosswalk

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
20	20 (Reserved)	Scope of Title - Definitions	N/A	Definitions moved to Ch. 21, 22 and 23. Rescinded Ch. 20. (Reserved)
21	21	Compliance	Compliance, Excess Emissions, and Measurement of Emissions	Kept and combined with rules from Chapters 24, 25, 26, and 29.
22	22	Controlling Pollution-Permits	Controlling Air Pollution - Construction Permitting	Kept construction permit rules and combined with Ch. 20 (definitions) and Ch. 28 (NAAQS). Moved operating permit rules to Chapter 24.
22.100 - 22.300(12)	(New) 24	N/A	Operating Permits	Moved operating permit rules from Ch. 22 to Ch. 24.
23	23	Emission Standards	Air Emission Standards	Kept
24	(New) 21	Excess Emissions	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Moved TV rules here (to Ch. 24).
25	(New) 21	Emissions Measurement	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 25. (Reserved)
26	(New) 21	Emergency Air Pollution Episodes	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 26. (Reserved)
27	27	Local Program Acceptance	Local Program Acceptance	Kept
28	22	NAAQS	N/A	Moved rules and combined with Ch. 22. Rescinded Ch. 28. (Reserved)
29	(New) 21	Opacity Qualifications	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 29. (Reserved)
30	30	Fees	Fee	Kept
31	31	Nonattainment Areas	Nonattainment New Source Review	Kept
32	N/A	AFO Field Study	N/A	Rescinded Ch. 32. (Reserved)
33	33	Special regulations and construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD) of air quality	Construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD)	Kept
34	N/A	Emissions Trading-CAIR-CAMR	N/A	Rescinded Ch. 34. (Reserved)
35	N/A	Grant Assistance Programs	N/A	Rescinded Ch. 35. (Reserved)

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
20	20 (Reserved)	Scope of Title - Definitions	N/A	Definitions moved to Ch. 21, 22 and 23. Rescinded Ch. 20. (Reserved)
20.1	N/A	Scope of title	N/A	
20.2	Ch. 21, 22, 23	Definitions	Definitions	See beginning of Ch. 21, 22, and 23
20.3	N/A	Air quality forms generally	N/A	
21	21	Compliance	Compliance, Excess Emissions, and Measurement of Emissions	Kept and combined with rules from Chapters 24, 25, 26, and 29.
21.1	21.1	Compliance Schedule	Definitions and compliance requirements	Added definitions from Ch. 21, some language updated
21.2	21.2	Variances	Variances	Some language updated
21.3	21.3	Emission reduction program	Reserved	Reserved
21.4	21.4	Circumvention of rules	Circumvention of rules	Minor language updated
21.5	21.5	Evidence used in establishing that a violation has or is occurring	Evidence used in establishing that a violation has occurred or is occurring	21.5(2) Reserved, some language updated
21.6	21.6	Temporary electricity generation for disaster situations	Temporary electricity generation for disaster situations	Minor language updated
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated
N/A	21.9	N/A	Compliance with other requirements	New language
25.1	21.10	Testing and sampling of new and existing equipment	Testing and sampling of new and existing equipment	Moved from Ch. 25, some language updated
25.2	21.11	Continuous emission monitoring under the acid rain program	Continuous emission monitoring under the acid rain program	Moved from Ch. 25, some language updated
25.3	N/A	Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated
26.1	21.14	Prevention of air pollution emergency episodes - General	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions alert level	Abatement strategies emission reduction actions alert level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions warning level	Abatement strategies emission reduction actions warning level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table V	Table III	Abatement strategies emission reduction actions emergency level	Abatement strategies emission reduction actions emergency level	Moved from Ch. 26, reference federal appendix table
22	22	Controlling Pollution-Permits	Controlling Air Pollution - Construction Permitting	Kept construction permit rules and combined with Ch. 20 (definitions) and Ch. 28 (NAAQS). Moved operating permit rules to Chapter 24.
22.1	22.1	Permits required for new or existing stationary sources	Definitions and permit requirements for new or existing stationary sources	Added definitions from Ch. 20, some language updated
22.2	22.2	Processing permit applications	Processing permit applications	
22.3	22.3	Issuing permits	Issuing permits	
22.4	22.4	Special requirements for major stationary sources located in areas designated attainment or unclassified (PSD)	Major stationary sources located in areas designated attainment or unclassified (PSD)	
22.5	22.5	Special requirements for nonattainment areas	Major stationary sources located in areas designated Nonattainment	
22.6	22.6	Nonattainment area designations	Reserved	

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
22.7	22.7	Alternative emission control program	Alternative emission control program	
22.8	22.8	Permit by rule	Permit by rule	
22.9	22.9	Special requirements for visibility protection	Special requirements for visibility protection	A lot of language updated or removed
22.10	22.10	Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment	Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment	
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	Moved from Ch. 28, minor language updated
22.12 to 22.99	N/A	Reserved	N/A	Removed
22.100 - 22.300(12)	(New) 24	N/A	Operating Permits	Moved operating permit rules from Ch. 22 to Ch. 24.
22.100	24.100	Definitions for Title V operating permits	Definitions for Title V operating permits	Moved from Ch. 22, some language updated, many 40 CFR 70 definitions adopted by reference
22.101	24.101	Applicability of Title V operating permit requirements	Applicability of Title V operating permit requirements	Moved from Ch. 22, some language updated to correct punctuation and remove old dates
22.102	24.102	Source category exemptions	Source category exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.103	24.103	Insignificant activities	Insignificant activities	Moved from Ch. 22, some language updated to correct typos and remove old dates
22.104	24.104	Requirement to have a Title V permit	Requirement to have a Title V permit	Moved from Ch. 22, some language updated no changes to rule text
22.105	24.105	Title V permit applications	Title V permit applications	Moved from Ch. 22, updated language to address electronic submissions and remove past application due dates
22.106	24.106	Annual Title V emissions inventory	Annual Title V emissions inventory	Moved from Ch. 22, no changes to rule text
22.107	24.107	Title V permit processing procedures	Title V permit processing procedures	Moved from Ch. 22, some language updated to update locations of public records and remove old CFR amendment dates
22.108	24.108	Permit content	Permit content	Moved from Ch. 22, some language updated to correct punctuation, remove old dates, and adopt 40 CFR 70 rules by reference
22.109	24.109	General permits	General permits	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.110	24.110	Changes allowed without a Title V permit revision (off-permit revisions)	Changes allowed without a Title V permit revision (off-permit revisions)	Moved from Ch. 22, some language updated to remove redundant language
22.111	24.111	Administrative amendments to Title V permits	Administrative amendments to Title V permits	Moved from Ch. 22, no changes to rule text
22.112	24.112	Minor Title V permit modifications	Minor Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.113	24.113	Significant Title V permit modifications	Significant Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.114	24.114	Title V permit reopenings	Title V permit re-openings	Moved from Ch. 22 to Ch. 24, some language updated to adopt 40 CFR 70 rules by reference
22.115	24.115	Suspension, termination, and revocation of Title V permits	Suspension, termination, and revocation of Title V permits	Moved from Ch. 22, no changes to rule text
22.116	24.116	Title V permit renewals	Title V permit renewals	Moved from Ch. 22, no changes to rule text
22.117-22.119	24.117-24.119	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.120	24.120	Acid rain program—definitions	Acid rain program—definitions	Moved from Ch. 22, some language updated to remove old CFR amendment dates and address electronic submissions
22.121	24.121	Measurements, abbreviations, and acronyms	Reserved	Moved from Ch. 22, no changes to rule text
22.122	24.122	Applicability	Applicability	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.123	24.123	Acid rain exemptions	Acid rain exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.124	24.124	Retired units exemption	Reserved	Moved from Ch. 22, no changes to rule text
22.125	24.125	Standard requirements	Standard requirements	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.126	24.126	Designated representative—submissions	Designated representative—submissions	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.127	24.127	Designated representative—objections	Designated representative—objections	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.128	24.128	Acid rain applications—requirement to apply	Acid rain applications—requirement to apply	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference

22.129	24.129	Information requirements for acid rain permit applications	Information requirements for acid rain permit applications	Moved from Ch. 22, no changes to rule text
Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
22.130	24.130	Acid rain permit application shield and binding effect of permit application	Acid rain permit application shield and binding effect of permit application	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.131	24.131	Acid rain compliance plan and compliance options—general	Acid rain compliance plan and compliance options—general	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.132	24.132	Repowering extensions	Reserved	Moved from Ch. 22, no changes to rule text
22.133	24.133	Acid rain permit contents—general	Acid rain permit contents—general	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.134	24.134	Acid rain permit shield	Acid rain permit shield	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.135	24.135	Acid rain permit issuance procedures—general	Acid rain permit issuance procedures—general	Moved from Ch. 22, no changes to rule text
22.136	24.136	Acid rain permit issuance procedures—completeness	Acid rain permit issuance procedures—completeness	Moved from Ch. 22, no changes to rule text
22.137	24.137	Acid rain permit issuance procedures—statement of basis	Acid rain permit issuance procedures—statement of basis	Moved from Ch. 22, no changes to rule text
22.138	24.138	Issuance of acid rain permits	Issuance of acid rain permits	Moved from Ch. 22, some language updated to remove old dates and deadlines
22.139	24.139	Acid rain permit appeal procedures	Acid rain permit appeal procedures	Moved from Ch. 22, no changes to rule text
22.140	24.140	Permit revisions—general	Permit revisions—general	Moved from Ch. 22, some language updated to remove old dates
22.141	24.141	Permit modifications	Permit modifications	Moved from Ch. 22, no changes to rule text
22.142	24.142	Fast-track modifications	Fast-track modifications	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.143	24.143	Administrative permit amendment	Administrative permit amendment	Moved from Ch. 22, some language updated to remove fax option
22.144	24.144	Automatic permit amendment	Automatic permit amendment	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.145	24.145	Permit reopenings	Permit re-openings	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.146	24.146	Compliance certification—annual report	Compliance certification—annual report	Moved from Ch. 22, no changes to rule text
22.147	24.147	Compliance certification—units with repowering extension plans	Reserved	Moved from Ch. 22, no changes to rule text
22.148	24.148	Sulfur dioxide opt-ins	Sulfur dioxide opt-ins	Moved from Ch. 22, some language updated to update the 40 CFR Part 74 amendment date
22.149 - 22.199	24.149 - 24.299	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.200	24.200 - 24.299	Definitions for voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.201	24.200 - 24.299	Eligibility for voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.203	24.200 - 24.299	Voluntary operating permit applications	Reserved	Moved from Ch. 22, no changes to rule text
22.204	24.200 - 24.299	Voluntary operating permit fees	Reserved	Moved from Ch. 22, no changes to rule text
22.205	24.200 - 24.299	Voluntary operating permit processing procedures	Reserved	Moved from Ch. 22, no changes to rule text
22.206	24.200 - 24.299	Permit content	Reserved	Moved from Ch. 22, no changes to rule text
22.207	24.200 - 24.299	Relation to construction permits	Reserved	Moved from Ch. 22, no changes to rule text
22.208	24.200 - 24.299	Suspension, termination, and revocation of voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.209	24.200 - 24.299	Change of ownership for facilities with voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.210 - 22.299	24.200 - 24.299	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.300	24.300	Operating permit by rule for small sources	Operating permit by rule for small sources	Moved from Ch. 22, no changes to rule text

23	23	Emission Standards	Air Emission Standards	Kept
23.1	23.1	Emission standards	Emission standards	Kept, language updated, tables used
23.2	23.2	Open burning	Open burning	Kept, some language updated
23.3	23.3	Specific contaminants	Specific contaminants	Kept, some language updated
23.4	23.4	Specific processes	Specific processes	Kept, some language updated
23.5	23.5	Anaerobic lagoons	Anaerobic lagoons	Kept, some language updated
23.6	23.6	Alternative emission limits (the “bubble concept”)	Reserved	Removed

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24	(New) 21	Excess Emissions	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Moved operating permit rules here (to Ch. 24).
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated
25	(New) 21	Emissions Measurement	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 25. (Reserved)
25.1	21.10	Testing and sampling of new and existing equipment	Testing and sampling of new and existing equipment	Moved from Ch. 25, some language updated
25.2	21.11	Continuous emission monitoring under the acid rain program	Continuous emission monitoring under the acid rain program	Moved from Ch. 25, some language updated
25.3		Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated
26	(New) 21	Emergency Air Pollution Episodes	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 26. (Reserved)
26.1	21.14	Prevention of air pollution emergency episodes - General	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions alert level	Abatement strategies emission reduction actions alert level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions warning level	Abatement strategies emission reduction actions warning level	Moved from Ch. 26, reference federal appendix table
Ch 26Table V	Table III	Abatement strategies emission reduction actions emergency level	Abatement strategies emission reduction actions emergency level	Moved from Ch. 26, reference federal appendix table
27	27	Local Program Acceptance	Local Program Acceptance	Kept
27.1	27.1	General	General	Kept, some language updated
27.2	27.2	Certificate of acceptance	Certificate of acceptance	Kept, some language updated
27.3	27.3	Ordinance or regulations	Ordinance or regulations	Kept, some language updated
27.4	27.4	Administrative organization	Administrative organization	Kept, some language updated
27.5	27.5	Program activities	Program activities	Kept, some language updated
28	22	NAAQS	N/A	Moved rules and combined with Ch. 22. Rescinded Ch. 28. (Reserved)
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	Moved from Ch. 28, minor language updated Rescinded Ch. 28. (Reserved)
29	(New) 21	Opacity Qualifications	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 29. (Reserved)
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated

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30	30	Fees	Fee	Kept
30.1	30.1	Purpose	Purpose	Kept, language updated
30.2	30.2	Fees associated with new source review applications	Fees associated with new source review applications	Kept, some language updated
30.3	30.3	Fees associated with asbestos demolition or renovation notification	Fees associated with asbestos demolition or renovation notification	Kept, some language updated
30.4	30.4	Fees associated with Title V operating permits	Fees associated with Title V operating permits	Kept, some language updated
30.5	30.5	Fee advisory groups	Fee advisory groups	Kept, language updated
30.6	30.6	Process to establish or adjust fees and notification of fee rates	Process to establish or adjust fees and notification of fee rates	Kept, some language updated
30.7	30.7	Fee revenue	Reserved	Language removed
31	31	Nonattainment Areas	Nonattainment New Source Review	Kept
31.1	31.1	Permit requirements relating to nonattainment areas	Permit requirements relating to nonattainment areas	Kept, some language updated
31.2	31.2	Conformity of general federal actions to the Iowa state implementation plan or federal implementation plan - Rescinded	Reserved	Language removed
31.3	31.3	Nonattainment new source review requirements for areas designated nonattainment on or after May 18, 1998	Nonattainment new source review (NNSR) requirements for areas designated nonattainment	Kept, some language updated
31.4	31.4	Preconstruction review permit program	Preconstruction review permit program	Kept
31.5 - 31.8	31.5 - 31.8	Reserved	Reserved	Kept
31.9	31.9	Actuals PALs	Actuals PALs	Kept, some language updated
31.10	31.10	Validity of rules	Validity of rules	Kept
31.11 - 31.19	N/A	Reserved	N/A	Rescinded and removed
31.20	N/A	Special requirements for nonattainment areas designated before May 18, 1998	N/A	Rescinded and removed
32	N/A	AFO Field Study	N/A	Rescinded Ch. 32. (Reserved)
32.1	N/A	Animal feeding operations field study	N/A	Rescinded, reserved, and language removed
32.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
32.3	N/A	Exceedance of the health effects value (HEV) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.4	N/A	Exceedance of the health effects standard (HES) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.5	N/A	Iowa Air Sampling Manual	N/A	Rescinded, reserved, and language removed
33	33	Special regulations and construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD) of air quality	Construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD)	Kept
33.1	33.1	Purpose	Purpose	Kept, some language updated
33.2	33.2	Reserved	Reserved	Kept
33.3	33.3	Special construction permit requirements for major stationary sources in areas designated attainment or unclassified (PSD)	PSD construction permit requirements for major stationary sources	Kept, some language updated
33.4 - 33.8	33.4 - 33.8	Reserved	Reserved	Kept
33.9	33.9	Plantwide applicability limitations (PALs)	Plantwide applicability limitations (PALs)	Kept, some language updated
33.10	33.10	Exceptions to adoption by reference	Exceptions to adoption by reference	Kept, some language updated

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34	N/A	Emissions Trading-CAIR-CAMR	N/A	Rescinded Ch. 34. (Reserved)
34.1	N/A	Purpose	N/A	Rescinded, reserved, and language removed
34.2 - 34.199	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.200	N/A	Provisions for air emissions trading and other requirements for the Clean Air Interstate Rule (CAIR) - rescinded	N/A	Rescinded, reserved, and language removed
34.201	N/A	CAIR NOx annual trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.202	N/A	CAIR designated representative for CAIR NOx sources - rescinded	N/A	Rescinded, reserved, and language removed
34.203	N/A	Permits - rescinded	N/A	Rescinded, reserved, and language removed
34.204	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.205	N/A	CAIR NOx allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.206	N/A	CAIR NOx allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed
34.207	N/A	CAIR NOx allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.208	N/A	Monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.209	N/A	CAIR NOx opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.210	N/A	CAIR SO2 trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.211 - 34.219	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.220	N/A	CAIR NOx ozone season trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.221	N/A	CAIR NOx ozone season trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.222	N/A	CAIR designated representative for CAIR NOx ozone season sources - rescinded	N/A	Rescinded, reserved, and language removed
34.223	N/A	CAIR NOx ozone season permits - rescinded	N/A	Rescinded, reserved, and language removed
34.224	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.225	N/A	CAIR NOx ozone season allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.226	N/A	CAIR NOx ozone season allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed
34.227	N/A	CAIR NOx ozone season allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.228	N/A	CAIR NOx ozone season monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.229	N/A	CAIR NOx ozone season opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.230 - 34.299	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.300	N/A	Provisions for air emissions trading and other requirements for the Clean Air Mercury Rule (CAMR) - rescinded	N/A	Rescinded, reserved, and language removed
34.301	N/A	Mercury (Hg) budget trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.302	N/A	Hg designated representative for Hg budget sources - rescinded	N/A	Rescinded, reserved, and language removed
34.303	N/A	General Hg budget trading program permit requirements - rescinded	N/A	Rescinded, reserved, and language removed
34.304	N/A	Hg allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.305	N/A	Hg allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed

34.306	N/A	Hg allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
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34.307	N/A	Monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.308	N/A	Performance specifications - rescinded	N/A	Rescinded, reserved, and language removed
35	N/A	Grant Assistance Programs	N/A	Rescinded Ch. 35. (Reserved)
35.1	N/A	Purpose	N/A	Rescinded, reserved, and language removed
35.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
35.3	N/A	Role of the department of natural resources	N/A	Rescinded, reserved, and language removed
35.4	N/A	Eligible projects	N/A	Rescinded, reserved, and language removed
35.5	N/A	Forms	N/A	Rescinded, reserved, and language removed
35.6	N/A	Project selection	N/A	Rescinded, reserved, and language removed
35.7	N/A	Funding sources	N/A	Rescinded, reserved, and language removed
35.8	N/A	Type of financial assistance	N/A	Rescinded, reserved, and language removed
35.9	N/A	Term of loans	N/A	Rescinded, reserved, and language removed
35.10	N/A	Reduced award	N/A	Rescinded, reserved, and language removed
35.11	N/A	Fund disbursement limitations	N/A	Rescinded, reserved, and language removed
35.12	N/A	Applicant cost share	N/A	Rescinded, reserved, and language removed
35.13	N/A	Eligible costs	N/A	Rescinded, reserved, and language removed
35.14	N/A	Ineligible costs	N/A	Rescinded, reserved, and language removed
35.15	N/A	Written agreement	N/A	Rescinded, reserved, and language removed
35.16	N/A	Financial assistance denial	N/A	Rescinded, reserved, and language removed