Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: Cargill Inc. – Sioux City
Facility Location: 1016 Clark Street, Sioux City, IA 51101
Air Quality Operating Permit Number: 99-TV-013R4
Expiration Date: January 12, 2025
Permit Renewal Application Deadline: July 12, 2024

EIQ Number: 92-0769
Facility File Number: 97-01-001

Responsible Official
Name: Christopher Osborn
Title: Facility Supervisor
Mailing Address: 1016 Clark St, Sioux City, IA 51101
Phone #: (712)279-1234

Permit Contact Person for the Facility
Name: Christopher Osborn
Title: Facility Supervisor
Mailing Address: 1016 Clark St, Sioux City, IA 51101
Phone #: (712)279-1234

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

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Air Operating Permits Section Date

Table of Contents

Abbreviations

acfm.....actual cubic feet per minute
CFR.....Code of Federal Regulation
CE .....control equipment
CEM.....continuous emission monitor
^{o}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
NSPS .....new source performance standard
NESHAP .....National Emission Standards for Hazardous Air Pollutants
ppmv .....parts per million by volume
lb./hr .....pounds per hour
lb./MMBtu .....pounds per million British thermal units
SCC.....Source Classification Codes
acfm.....standard cubic feet per minute
SIC .....Standard Industrial Classification
TPY .....tons per year
USEPA.....United States Environmental Protection Agency

Pollutants
PM.....particulate matter
PM_{10} .....particulate matter ten microns or less in diameter
SO_2 .....sulfur dioxide
NO_x .....nitrogen oxides
VOC .....volatile organic compound
CO.....carbon monoxide
HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: Cargill Inc. – Sioux City
Permit Number: 99-TV-013R4

Facility Description: Soybean Processing Plant
Principal Activities: Soybean Oil Processing and Refining (SIC 2075)
Secondary Activities: Refining Soybean Oil (SIC 2079), Refining Vegetable Oil (SIC 2076)

Equipment List

EP	EU	Emission Unit Description	Construction Permit Number
EP-01	EU-01.01	Conveyance	95-A-323-P13
	EU-01.02	West Grain Cleaner	
EP-01A	EU-01.03	Grinder	13-A-188-P
EP-02	EU-02	Tank 82	95-A-324-P11
	EU-02.01	Conveyors	
	EU-02.02	Four (4) Primary Crackers	
	EU-02.03	Vertical Seed Conditioner	
EP-04	EU-04.01	Hull Grinder Bag Filter	95-A-325-S5
EP-05	EU-05.01	Drying	95-A-326-S4
	EU-05.02	Cooling	
	EU-05.03	Conveying	
EP-05A	EU-05A.01	Meal Dryer/Cooler Deck #1	98-A-400-S2
EP-06	EU-06.01	Meal Grinders	95-A-327-P6
	EU-06.02	Drag Conveyor	
	EU-06.03	Sifters	
EP-07	EU-07.01	Meal Conveying – Finished Meal Leg	95-A-328-P5
EP-08	EU-07.02	Meal Sifter	95-A-329-P7
	EU-07.03	Meal Grinder	
	EU-08.01	Rail Loadout	
	EU-08.02	Truck Loadout	
	EU-08.03	Conveyance	
EP-09	EU-09.01	Clay Storage	95-A-330
EP-10	EU-10.01	Clay Handling	95-A-331
EP-11	EU-11.01	Conveying	95-A-332-S5
	EU-11.02	East Grain Cleaner	
EP-13	EU-13.01	Flakers	95-A-334-P8
	EU-13.02	Conveyors	

EP	EU	Emission Unit Description	Construction Permit Number
EP-13A	EU-13A.01	Flaking	98-A-401-P4
	EU-13A.02	Conveyors	
EP-15	EU-15.01	Hull Transfer Storage	95-A-336-S4
EP-16	EU-16.01	Extraction Process	95-A-337-P9
EP-17	EU-17.01	Package Boiler	86-A-036-S6
EP-20	EU-20.01	Pellet Transfer	98-A-402-S3
EP-21	EU-21.01	Drying	95-A-340-S4
	EU-21.02	In Process Natural Gas Usage	
EP-22	EU-22.01	Drying	98-A-403-S3
	EU-22.02	In Process Natural Gas Usage	
EP-23	EU-23.01	Reconditioned Boiler - Natural Gas	95-A-341-S7
	EU-23.02	Reconditioned Boiler - Fuel Oil	
	EU-23.03	Reconditioned Boiler - Vegetable Oil	
EP-23.2	EU-23.21	Boiler #3 Heat Recovery Stack - Natural Gas	07-A-989-S1
	EU-23.22	Boiler #3 Heat Recovery Stack - Fuel Oil	
	EU-23.23	Boiler #3 Heat Recovery Stack - Vegetable Oil	
EP-25	EU-25.01	Storage Tank Aspiration	94-A-507
EP-26	EU-26.01	Bean Truck Receiving II (Receiving Pit)	96-A-1253-P7
	EU-26.02	Bean Truck Receiving II (Conveyance)	
EP-27	EU-27.01	Bean Conditioner	98-A-404-P4
EP-28	EU-28.01	Pellet Cooler	98-A-405-P5
EP-29	EU-29.01	GTX Refinery Boiler	99-A-677
EP-30	EU-30	Meal Flow Additive Tank	02-A-282-S1
EP-32	EU-32	Soybean CoProduct L/O System	02-A-555-S1
EP-33	EU-33	Vegetable Oil Refinery	03-A-028-S1
EP-38	EU-38	Dehulling Process	18-A-167

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
SS#3	Soybean Storage Tank
SS#4	Meal Storage Tank

II. Plant-Wide Conditions

Facility Name: Cargill Inc. – Sioux City
Permit Number: 99-TV-013R4

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

Permit Duration

The term of this permit is: Five years from permit issuance
Commencing on: January 13, 2020
Ending on: January 12, 2025

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

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

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

Sulfur Dioxide (SO_2): 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"

Consent Decree

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

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

40 CFR Part 60 Subpart A – General Provisions

This facility is subject to 40 CFR 60 Subpart A – General Provisions. The affected emission points include EP-01, EP-02, EP-11, EP-16, EP-17, EP-21, EP-22, EP-23, EP-23.2, EP-26 and EP-29. See Appendix A for the link to the Standard.

Authority for Requirements: 40 CFR 60 Subpart A
567 IAC 23.1(2)

40 CFR Part 60 Subpart Db Requirements

This facility is subject to 40 CFR Part 60 Subpart Db – Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units. The affected emission points include EP-23 and EP-23.2. See Appendix A for the link to the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

Authority for Requirements: 40 CFR 60 Subpart Db
567 IAC 23.1(2) "ccc"

40 CFR Part 60 Subpart Dc Requirements

This facility is subject to 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial, Commercial, and Institutional Steam Generating Unit. The affected emission points includes EP-17 and EP-29. See Appendix A for the link to the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

40 CFR 60 Subpart Kb Requirements

This facility is subject to 40 CFR 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. The affected emission point includes EP-16. See Appendix A for the link to the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

40 CFR 60 Subpart DD Requirements

This facility is subject to 40 CFR 60 Subpart DD – Standards of Performance for Grain Elevators. The affected emission points include EP-01, EP-02, EP-11, EP-21, EP-22 and EP-26.
See Appendix A for the link to the Standard.
Applicable requirements are incorporated in the Emission Point Specific conditions.
Authority for Requirements: 40 CFR 60 Subpart DD
567 IAC 23.1(2) "ooo"

40 CFR Part 63 Subpart A Requirements

This facility is subject to 40 CFR Part 63 Subpart A – General Provisions. The affected emission points include EP-16, EP-17, EP-23, EP-23.2 and EP-29.
See Appendix A for the link to the Standard.
Applicable requirements are incorporated in the Emission Point Specific conditions.
Authority for Requirements: 40 CFR 63 Subpart A
567 IAC 23.1(4) "a"

40 CFR Part 63 Subpart GGGG Requirements

This facility is subject to 40 CFR Part 63 Subpart GGGG – National Emission Standard for Hazardous Air Pollutants: Solvent Extractions for Vegetable Oil Production. The affected emission point includes EP-16.
See Appendix A for the link to the Standard.
Applicable requirements are incorporated in the Emission Point Specific conditions.
Authority for Requirements: 40 CFR 63 Subpart GGGG
567 IAC 23.1(4) "cg"

40 CFR Part 63 Subpart DDDDD Requirements

This facility is subject to 40 CFR Part 63 Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters. The affected emission points include EP-17, EP-23, EP-23.2 and EP-29.
See Appendix A for the link to the Standard.
Applicable requirements are incorporated in the Emission Point Specific conditions.
Authority for Requirements: 40 CFR 63 Subpart DDDDD

40 CFR Part 61 Subpart M Requirements

This facility is subject only to the Subpart M NESHAP for the demolition and renovation of asbestos containing structures identified in 40 CFR 61.145.
See Appendix A for the link to the Standard.
Authority for Requirements: 40 CFR 61 Subpart M
567 IAC 23.1(3)"a"

III. Emission Point-Specific Conditions

Facility Name: Cargill Inc. – Sioux City
Permit Number: 99-TV-013R4

Emission Point ID Number: EP-01

Associated Equipment

Associated Emission Unit ID Numbers: EU-01.01, EU-01.02
Emissions Control Equipment ID Number: CE-01
Emissions Control Equipment Description: Cartridge Filter

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-01	EU-01.01	Conveyance • West Clean Leg Head and Boot • West Dry Leg Head and Boot • Tempering Tank Feed Drag • Overhead Tram Drag Conveyor Head	Soybeans	8,100 bushels/hr
	EU-01.02	West Grain Cleaner		8,100 bushels/hr

Note: The maximum annual capacity for this facility is 1,916,250 tons of soybeans per year.

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.

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 95-A-323-P13, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.0039 gr/dscf [(1)], 0.60 lb/hr [(1)]	
Particulate Matter (PM) - State	0.0046 gr/dscf [(1)], 0.72 lb/hr [(1)]	

[(1)] Total combined emissions allowed for EPs 01 and 01A.

Other Emission Limits

Pollutant	Limit	Reference
Opacity	40% (2)	DNR Construction Permit 95-A-323- P13, 40 CFR 60 Subpart DD, 567 IAC 23.1(2)"ooo" 567 IAC 23.3(2)"d"
Particulate Matter ($PM_{2.5}$)	0.29 lb/hr	
Particulate Matter (PM_{10})	0.59 lb/hr	
Particulate Matter (PM) - State	0.72 lb/hr	
Particulate Matter (PM) - Federal	0.023 g/dscfm (3)	

(2) 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).

(3) 0.023 grams per dry standard cubic meter (g/dscm) = 0.01 grains per dry standard cubic foot (gr/dscf).

NSPS Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
1.01, 1.02	A	General Provisions	NA	23.1(2)	§60.1 – §60.19
	DD	Standards of Performance for Grain Elevators	NA	23.1(2)"ooo"	§60.300 – §60.304

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 maintain the Cartridge Filter (CE-01) according to the manufacturer's specifications and maintenance schedule or per a written facility-specific operation and maintenance plan. The owner or operator shall maintain a log of all inspections and maintenance of the Cartridge Filter (CE-01). The owner or operator shall maintain a log of all actions resulting from the inspections and maintenance of the Cartridge Filter (CE-01).

B. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of project 19-057 the owner or operator shall document and maintain a record of the following:
   (1) A description of project 19-057,
   (2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by project 19-057, and
   (3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded

under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

C. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

D. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
   (1) Monitor the emission of PM, PM_{10} and $PM_{2.5}$ that is emitted by any emissions unit affected by project 19-057.
   (2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.

E. Per 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing the information required in condition D for a period of ten (10) years after the project 19-057 is completed.

F. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: DNR Construction Permit 95-A-323-P13

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40.5
Stack Opening, (inches, dia.): 22
Exhaust Flow Rate (scfm): 21,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 95-A-323-P13

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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-01A

Associated Equipment

Associated Emission Unit ID Numbers: EU-01.3
Emissions Control Equipment ID Number: CE-01A
Emissions Control Equipment Description: Bag Filter

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-01A	EU-01.03	Grinder	Soybeans	4 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.

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 13-A-188-P, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.0039 gr/dscf [(1)], 0.60 lb/hr [(1)]	
Particulate Matter (PM) - State	0.0046 gr/dscf [(1)], 0.72 lb/hr [(1)]	

[(1)]Total combined emissions allowed for EPs 1 and 1A

Other Emission Limits

Pollutant	Limit	Reference
Particulate Matter ($PM_{2.5}$)	0.13 lb/hr	DNR Construction Permit 13-A-188-P, 567 IAC 23.4 (7)
Particulate Matter (PM_{10})	0.13 lb/hr	
Particulate Matter (PM) - State	0.13 lb/hr, 0.1 gr/dscf	

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 maintain the control equipment according to manufacturer's specifications and maintenance schedule or per a written facility specific operation and maintenance plan.

B. A log of all inspections and maintenance of the control equipment.

C. A log of all actions resulting from the inspections and maintenance of the control equipment.

Authority for Requirement: DNR Construction Permit 13-A-188-P

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 3,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-188-P

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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible

emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-02

Associated Equipment

Associated Emission Unit ID Numbers: EU-02, EU-02.01, EU-02.02, EU-02.03
Emissions Control Equipment ID Number: CE-02
Emissions Control Equipment Description: Baghouse

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-02	EU-02	Tank 82	Soybeans	218.75 ton/hour
	EU-02.01	Conveyors		218.75 ton/hour
	EU-02.02	Four (4) Primary Crackers		57,000 bushels/day each
	EU-02.03	Vertical Seed Conditioner		218.75 ton/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.

BACT Emission Limits

Pollutant	Limit	Reference
Particulate Matter (PM_{10})	0.003 gr/dscf [(1)], 0.76 lb/hr [(1)]	DNR Construction Permit 95-A-324-P11
Particulate Matter (PM) - State	0.006 gr/dscf [(1)], 1.52 lb/hr [(1)]	

[(1)] BACT emission limit based on a 4-hour average.

Other Emission Limits

Pollutant	Limit	Reference
Opacity	0% [(2)]	40 CFR 60 Subpart DD, 567 IAC 23.1(2)"ooo"
Particulate Matter ($PM_{2.5}$)	0.38 lb/hr	DNR Construction Permit 95-A-324-P11

[(2)] 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).

NSPS Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
2.01	A	General Provisions	NA	23.1(2)	§60.1 – §60.19
	DD	Standards of Performance for Grain Elevators	NA	23.1(2)"ooo"	§60.300 – §60.304

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 emission units (EU 02, 02.01, 02.02) and control equipment (CE-02) shall be operated and maintained according to the facility's maintenance schedule.

B. A log of all maintenance and inspection activities performed on the emission units (EU 02, 02.01, 02.02) and control equipment (CE-02). This log shall include, but is not necessarily limited to:
   a. The date and time any inspection and/or maintenance was performed on the emission units (EU 02, 02.01, 02.02) and/or control equipment (CE-02);
   b. Any issues identified during the inspection and the date each issue was resolved;
   c. Any issues addressed during the maintenance activities and the date each issue was resolved;
   d. Identification of the staff member performing the maintenance or inspection.

C. The facility shall process a maximum of 1,916,250 tons of soybeans per twelve month rolling total.

D. The owner or operator shall record the total amount of soybeans processed, in tons for each month.

E. The owner or operator shall record the total amount of soybeans processed, in tons per twelve month period rolled monthly.

F. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of project 18-101 the owner or operator shall document and maintain a record of the following:
   (1) A description of project 18-101,
   (2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by project 18-101, and
   (3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

G. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

H. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
   (1) Monitor the emission of PM, PM_{10} and $PM_{2.5}$ that is emitted by any emissions unit affected by project 18-101.
   (2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.

I. Per 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing the information required in condition H for a period of ten (10) years after the project 18-101 is completed.

J. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

K. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of project 19-057 the owner or operator shall document and maintain a record of the following:
   a. A description of project 19-057,
   b. Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by project 19-057, and
   c. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

L. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

M. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
   a. Monitor the emission of PM, PM_{10} and $PM_{2.5}$ that is emitted by any emissions unit affected by project 19-057.
   b. Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.

N. Per 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing the information required in condition M for a period of ten (10) years after the project 19-057 is completed.

O. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: DNR Construction Permit 95-A-324-P11

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 62
Stack Opening, (inches, dia.): 26
Exhaust Flow Rate (scfm): 29,500
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 95-A-324-P11

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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-04

Associated Equipment

Associated Emission Unit ID Numbers: EU-04.01
Emissions Control Equipment ID Number: CE-04
Emissions Control Equipment Description: Bag filter

Emission Unit vented through this Emission Point: EU-04.01
Emission Unit Description: Hull Grinding
Raw Material/Fuel: Soybeans
Rated Capacity: 1,642,500 tons/yr

Applicable Requirements

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

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 95-A-325-S5, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.002 gr/dscf (1), 0.137 lb/hr (1)	
Particulate Matter (PM)	0.006 gr/dscf (1)	

(1) BACT emission limit based on a 4-hour average.

Other Emission Limits

Pollutant	Limit	Reference
Particulate Matter (PM) - State	0.1 gr/dscf	DNR Construction Permit 95-A-325-S5, 567 IAC 23.4(7)

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

Stack Height, (ft, from the ground): 36.6
Stack Opening, (inches, dia.): 20
Exhaust Flow Rate (acfm): 8,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical
Authority for Requirement: DNR Construction Permit 95-A-325-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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-05

Associated Equipment

Associated Emission Unit ID Numbers: EU-05.01, EU-05.02, EU-05.03
Emissions Control Equipment ID Number: CE-05.01. CE-05.02, CE-5.03, CE-05.04
Emissions Control Equipment Description: (4) Product Recovery Cyclones

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-05	EU-05.01	Drying	Soybeans	1,642,500 tons/yr
	EU-05.02	Cooling		1,642,500 tons/yr
	EU-05.03	Conveying		1,642,500 tons/yr

Applicable Requirements

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

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0% (1)	DNR Construction Permit 95-A-326-S4, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.005 gr/dscf (1), 2.9 lb/hr (1)	
Particulate Matter (PM)	0.01gr/dscf (1), 5.8 lb/hr (1)	

(1) BACT is baseline emissions and is a product recovery cyclone.

Other Emission Limits

Pollutant	Limit	Reference
Particulate Matter (PM) - State	0.1 gr/dscf	DNR Construction Permit 95-A-326-S4, 567 IAC 23.4(7)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 85
Stack Opening, (inches, dia.): 66
Exhaust Flow Rate (acfm): 72,800
Exhaust Temperature (°F): 115
Discharge Style: Vertical
Authority for Requirement: DNR Construction Permit 95-A-326-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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-05A

Associated Equipment

Associated Emission Unit ID Numbers: EU-05A.01
Emissions Control Equipment ID Number: CE-05A
Emissions Control Equipment Description: Product Recovery Cyclone

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Emission Unit vented through this Emission Point: EU-05A.01
Emission Unit Description: Meal Dryer/ Cooler Deck #1
Raw Material/Fuel: Soybeans
Rated Capacity: 1,642,500 tons/yr

Applicable Requirements

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

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0% (1)	DNR Construction Permit 98-A-400-S2, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.003 gr/dscf (1), 0.6 lb/hr (1)	
Particulate Matter (PM)	0.006gr/dscf (1), 1.2 lb/hr (1)	

(1) BACT is baseline emissions and is a product recovery cyclone.

Other Emission Limits

Pollutant	Limit	Reference
Particulate Matter (PM) - State	0.1 gr/dscf	DNR Construction Permit 98-A-400-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): 71
Stack Opening, (inches, dia.): 30.5
Exhaust Flow Rate (acfm): 27,500
Exhaust Temperature (°F): 190
Discharge Style: Vertical (specified on Form 2.0)
Authority for Requirement: DNR Construction Permit 98-A-400-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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-06

Associated Equipment

Associated Emission Unit ID Numbers: EU-06.01, EU-06.02, EU-06.03
Emissions Control Equipment ID Number: CE-06
Emissions Control Equipment Description: Baghouse

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-06	EU-06.01	Meal Grinders	Soybeans	218.75 ton/hr
	EU-06.02	Drag Conveyors		218.75 ton/hr
	EU-06.03	Sifters		218.75 ton/hr

Applicable Requirements

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

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0% (1)	DNR Construction Permit 95-A-327-P6, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.002 gr/dscf (2); 0.24 lb/hr (2)	
Particulate Matter (PM)	0.006 gr/dscf (3)	

(1) Standard is expressed as a six-minute average.
(2) Standard is expressed as 15-hour average.
(3) Standard is expressed as 4-hour average.

Other Emission Limits

Pollutant	Limits	Reference
Opacity	40% (4)	DNR Construction Permit 95-A-327-P6, 567 IAC 23.3(2) "d"
Particulate Matter (PM_{10})	0.24 lb/hr	DNR Construction Permit 95-A-327-P6
Particulate Matter (PM)	0.1 gr/scf	DNR Construction Permit 95-A-327-P6, 567 IAC 23.4(7)

(4) 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).

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 emission units (EU 6.01, 6.02, 6.03) and control equipment (CE-06) shall be operated and maintained according to the facility's maintenance schedule.

B. A log of all maintenance and inspection activities performed on the emission units (EU 6.01, 6.02, 6.03) and control equipment (CE-06). This log shall include, but is not necessarily limited to:
   a. The date and time any inspection and/or maintenance was performed on the emission units (EU (EU 6.01, 6.02, 6.03) and/or control equipment (CE-06);
   b. Any issues identified during the inspection and the date each issue was resolved;
   c. Any issues addressed during the maintenance activities and the date each issue was resolved;
   d. Identification of the staff member performing the maintenance or inspection.

C. The facility shall process a maximum of 1,916,250 tons of soybeans per twelve month rolling total.

D. The owner or operator shall record the total amount of soybeans processed, in tons for each month.

E. The owner or operator shall record the total amount of soybeans processed, in tons per twelve month period rolled monthly.

F. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of project 18-101 the owner or operator shall document and maintain a record of the following:
   (1) A description of project 18-101,
   (2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by project 18-101, and
   (3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

G. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

H. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
   (1) Monitor the emission of PM, PM_{10} and $PM_{2.5}$ that is emitted by any emissions unit affected by project 18-101.
   (2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.

I. Per 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing the information required in condition H for a period of ten (10) years after the project 18-101 is completed.

J. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: DNR Construction Permit 95-A-327-P6

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 54
Stack Opening, (inches, dia.): 30
Exhaust Flow Rate (scfm): 14,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 95-A-327-P6

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

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-07

Associated Equipment

Associated Emission Unit ID Numbers: EU-07.01
Emissions Control Equipment ID Number: CE-07.01
Emissions Control Equipment Description: Baghouse

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-07	EU-07.01	Meal Conveying – Finished Meal Leg	Soybean Meal	375 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.

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0% (1)	DNR Construction Permit 95-A-328-P5, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.003 gr/dscf	
Particulate Matter (PM) - State	0.006 gr/dscf	

(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).

Other Emission Limits

Pollutant	Limits	Reference
Particulate Matter ($PM_{2.5}$)	0.03 lb/hr	DNR Construction Permit 95-A-328-P5
Particulate Matter (PM_{10})	0.05 lb/hr	
Particulate Matter (PM) - State	0.1 gr/scf	

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 maintain the Baghouse (CE-7.01) according to the manufacturer's specifications and maintenance schedule or per a written facility-specific operation and maintenance plan. The owner or operator shall maintain a log of all inspections and maintenance of the Baghouse (CE-7.01). The owner or operator shall maintain a log of all actions resulting from the inspections and maintenance of the Baghouse (CE-7.01).

B. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of project 19-057 the owner or operator shall document and maintain a record of the following:
   (1) A description of project 19-057,
   (2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by project 19-057, and
   (3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

C. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

D. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
   (1) Monitor the emission of PM, PM_{10} and $PM_{2.5}$ that is emitted by any emissions unit affected by project 19-057.
   (2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.

E. Per 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing the information required in condition D for a period of ten (10) years after the project 19-057 is completed.

F. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: DNR Construction Permit 95-A-328-P5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 25
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): 2,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 95-A-328-P5

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.

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
PM – State	Stack Test [(1)]	Initial	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
PM_{10}	Stack Test [(1)]	Initial	1 hour	40 CFR 51, Appendix M, 201A with 202

[(1)] The owner or the owner's authorized agent shall demonstrate compliance with the emission limitations within the applicable time period specified below:

- Within sixty (60) days after achieving the maximum production rate and no later than one hundred eighty (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.
- Within ninety (90) days of the issuance of this permit if there is no physical modification to any emission units or control equipment.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible

emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-08

Associated Equipment

Associated Emission Unit ID Numbers: EU-07.02, EU-07.03, EU-08.01, EU-08.02, EU-08.03
Emissions Control Equipment ID Number: CE-08
Emissions Control Equipment Description: Baghouse

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-08	EU-07.02	Meal Sifter	Soybean meal and hulls	375 tons/hr
	EU-07.03	Meal Grinder		375 tons/hr
	EU-08.01	Rail Loadout		400 tons/hr
	EU-08.02	Truck Loadout		400 tons/hr
	EU-08.03	Conveyance		400 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.

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0% (1)	DNR Construction Permit 95-A-329-P7, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.0021 gr/dscf, 0.5 lb/hr	
Particulate Matter (PM) - State	0.0042 gr/dscf, 1.0 lb/hr	

(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).

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 Baghouse (CE-08) shall be operated and maintained according to the facility's maintenance schedule.
B. A log of all maintenance and inspection activities performed on the Baghouse (CE-08). This log shall include, but is not necessarily limited to:
   a. The date and time any inspection and/or maintenance was performed on the Baghouse (CE-08);
   b. Any issues identified during the inspection and the date each issue was resolved;

c. Any issues addressed during the maintenance activities and the date each issue was resolved;
d. Identification of the staff member performing the maintenance or inspection.

C. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of project 18-101 the owner or operator shall document and maintain a record of the following:
(1) A description of project 18-101,
(2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by project 18-101, and
(3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

D. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

E. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
(1) Monitor the emission of PM, PM_{10} and $PM_{2.5}$ that is emitted by any emissions unit affected by project 18-101.
(2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.

F. Per 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing the information required in condition E for a period of ten (10) years after the project 18-101 is completed.

G. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

H. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of project 19-057 the owner or operator shall document and maintain a record of the following:
(1) A description of project 19-057,
(2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by project 19-057, and
(3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

I. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

J. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
   (1) Monitor the emission of PM, PM_{10} and $PM_{2.5}$ that is emitted by any emissions unit affected by project 19-057.
   (2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.

K. Per 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing the information required in condition J for a period of ten (10) years after the project 19-057 is completed.

L. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: DNR Construction Permit 95-A-329-P7

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 120
Stack Opening, (inches, dia.): 30
Exhaust Flow Rate (scfm): 35,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 95-A-329-P7

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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-09

Associated Equipment

Associated Emission Unit ID Numbers: EU-09.01
Emissions Control Equipment ID Number: CE-09
Emissions Control Equipment Description: Fabric filter

Emission Unit vented through this Emission Point: EU-09.01
Emission Unit Description: Material Storage Bin
Raw Material/Fuel: Filter Aid
Rated Capacity: 15 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	Limit	Reference
Opacity	0%	DNR Construction Permit 95-A-330, 567 IAC 23.3(2)"a", 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.005 gr/dscf, 0.034 lb/hr, 0.15 tons/year	
Particulate Matter (PM) - State	0.1 gr/dscf	

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:

The stack exhaust shall be observed once per week and the presence/lack of a visible plume noted. If visible emissions are noted, the baghouse shall be inspected and necessary repairs completed within 24 hours of the observation. If, after 24 hours repairs have not been completed, the source shall be shutdown until they have been completed. The Department shall be notified of the exceedance and completion of the repairs within 24 hours of each respectively.

Authority for Requirement: DNR Construction Permit 95-A-330

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 45.3
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (acfm): 800
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 95-A-330

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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-10

Associated Equipment

Associated Emission Unit ID Numbers: EU-10.01
Emissions Control Equipment ID Number: CE-10
Emissions Control Equipment Description: Fabric filter

Emission Unit vented through this Emission Point: EU-10.01
Emission Unit Description: Clay Handling
Raw Material/Fuel: Filter Aid
Rated Capacity: 15 tons/yr

Applicable Requirements

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

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 95-A-331, 567 IAC 23.3(2)"a", 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.005 gr/dscf, 0.021 lb/hr, 0.09 tons/year	
Particulate Matter (PM) - State	0.1 gr/dscf	

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:

The stack exhaust shall be observed once per week and the presence/lack of a visible plume noted. If visible emissions are noted, the baghouse shall be inspected and necessary repairs completed within 24 hours of the observation. If, after 24 hours repairs have not been completed, the source shall be shutdown until they have been completed. The Department shall be notified of the exceedance and completion of the repairs within 24 hours of each respectively.

Authority for Requirement: DNR Construction Permit 95-A-331

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40.8
Stack Opening, (inches, dia.): 4
Exhaust Flow Rate (acfm): 500
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 95-A-331

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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-11

Associated Equipment

Associated Emission Unit ID Numbers: EU-11.01, EU-11.02
Emissions Control Equipment ID Number: CE-11
Emissions Control Equipment Description: Bag filter

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-11	EU-11.01	Conveying	Soybeans	243 tons/hr
	EU-11.02	East Grain Cleaner		243 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.

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 95-A-332-S5, 40 CFR 60 Subpart DD, 567 IAC 23.1(2)"ooo"
Particulate Matter (PM_{10})	0.002 gr/dscf (1), 0.48 lb/hr (1)	
Particulate Matter (PM)	0.006 gr/dscf (1)	

(1) Standard is expressed as 4-hour average.

Other Emission Limits

Pollutant	Limits	Reference
Particulate Matter (PM)	0.01 gr/dscf, 0.1 gr/scf	DNR Construction Permit 95-A-332-S5, 40 CFR 60 Subpart DD, 567 IAC 23.1(2)"ooo", 567 IAC 23.4(7)

NSPS Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
11.01, 11.02	A	General Provisions	NA	23.1(2)	§60.1 – §60.19
	DD	Standards of Performance for Grain Elevators	NA	23.1(2)"ooo"	§60.300 – §60.304

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 60
Stack Opening, (inches, dia.): 38
Exhaust Flow Rate (acfm): 28,000
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 95-A-332-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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-13

Associated Equipment

Associated Emission Unit ID Numbers: EU-13.01, EU-13.02
Emissions Control Equipment ID Number: CE-13.01
Emissions Control Equipment Description: Cyclone

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-13	EU-13.01	4 Flakers	Soybeans	550 tons/day each
		5 Flakers		330 tons/day each
		6 Flakers		286 tons/day each
	EU-13.02	Conveyors		218.75 ton/hr

Applicable Requirements

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

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 95-A-334-P8, 567 IAC 23.4(7), 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	1.50 lb/hr	
Particulate Matter (PM) - State	1.50 lb/hr, 0.1 gr/dscf	

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 emission units (EU 13.01, 13.02) and control equipment (CE-13.01) shall be operated and maintained according to the facility's maintenance schedule.
B. A log of all maintenance and inspection activities performed on the emission units (EU 13.01, 13.02) and control equipment (CE-13.01). This log shall include, but is not necessarily limited to:
    a. The date and time any inspection and/or maintenance was performed on the emission units (EU 13.01, 13.02) and/or control equipment (CE-13.01);
    b. Any issues identified during the inspection and the date each issue was resolved;
    c. Any issues addressed during the maintenance activities and the date each issue was resolved;

d. Identification of the staff member performing the maintenance or inspection.

C. The facility shall process a maximum of 1,916,250 tons of soybeans per twelve month rolling total.

D. The owner or operator shall record the total amount of soybeans processed, in tons for each month.

E. The owner or operator shall record the total amount of soybeans processed, in tons per twelve month period rolled monthly.

F. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of project 18-101 the owner or operator shall document and maintain a record of the following:
   (1) A description of project 18-101,
   (2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by project 18-101, and
   (3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

G. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

H. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
   (1) Monitor the emission of PM, PM_{10} and $PM_{2.5}$ that is emitted by any emissions unit affected by project 18-101.
   (2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.

I. Per 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing the information required in condition H for a period of ten (10) years after the project 18-101 is completed.

J. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: DNR Construction Permit 95-A-334-P8

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 106
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 22,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 95-A-334-P8

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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-13A

Associated Equipment

Associated Emission Unit ID Numbers: EU-13A.01, EU-13A.02
Emissions Control Equipment ID Number: CE-13A
Emissions Control Equipment Description: Cyclone

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-13A	EU-13A.01	Flaking	Soybeans	218.75 ton/hour
	EU-13A.02	Conveyors		218.75 ton/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.

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0% (1)	DNR Construction Permit 98-A-401-P4, 567 IAC 23.4(7), 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.292 lb/hr (2)	
Particulate Matter (PM) - State	0.584 lb/hr (2), 0.1 gr/dscf	

(1) An exceedance of the indicator opacity of "no visible emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).
(2) BACT emission limit based on a 4-hour average.

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 emission units (EU 13A.01, 13A.02) and control equipment (CE-13A) shall be operated and maintained according to the facility's maintenance schedule.
B. A log of all maintenance and inspection activities performed on the emission units (EU 13A.01, 13A.02) and control equipment (CE-13A). This log shall include, but is not necessarily limited to:
   a. The date and time any inspection and/or maintenance was performed on the emission units (EU 13A.01, 13A.02) and/or control equipment (CE-13A);
   b. Any issues identified during the inspection and the date each issue was resolved;

c. Any issues addressed during the maintenance activities and the date each issue was resolved;
d. Identification of the staff member performing the maintenance or inspection.

C. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of project 18-101 the owner or operator shall document and maintain a record of the following:
(1) A description of project 18-101,
(2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by project 18-101, and
(3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

D. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

E. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
(1) Monitor the emission of PM, PM_{10} and $PM_{2.5}$ that is emitted by any emissions unit affected by project 18-101.
(2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.

F. Per 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing the information required in Condition E for a period of ten (10) years after the project 18-101 is completed.

G. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: DNR Construction Permit 98-A-401-P4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 11,357
Exhaust Temperature (°F): 100
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 98-A-401-P4

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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-15

Associated Equipment

Associated Emission Unit ID Numbers: EU-15.01
Emissions Control Equipment ID Number: CE-15
Emissions Control Equipment Description: Bag filter

Emission Unit vented through this Emission Point: EU-15.01
Emission Unit Description: Grain Handling
Raw Material/Fuel: Soybeans
Rated Capacity: 15 tons/yr

Applicable Requirements

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

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 95-A-336-S4, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.02 lb/hr [(1)], 0.003 gr/dscf [(1)]	
Particulate Matter (PM)	0.006 gr/dscf [(1)]	

[(1)] BACT emission limit based on a 4-hour average.

Other Emission Limits

Pollutant	Limits	Reference
Particulate Matter (PM) - State	0.1 gr/scf	DNR Construction Permit 95-A-336-S4, 567 IAC 23.4(7)

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

Stack Height, (ft, from the ground): 96
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (acfm): 800
Exhaust Temperature (°F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 95-A-336-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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-16

Associated Equipment

Associated Emission Unit ID Numbers: EU-16.01
Emissions Control Equipment ID Number: CE-16
Emissions Control Equipment Description: Mineral Oil Absorption

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Emission Unit vented through this Emission Point: EU-16.01
Emission Unit Description: Vegetable Oil Process - Soybeans
Raw Material/Fuel: Soybeans
Rated Capacity: 1,916,250 tons/yr

Applicable Requirements

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

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

BACT Emission Limits

Pollutant	Limit	Reference
Volatile Organic Compounds (VOC)	737.76 tons/year [(1)], 0.140 gal/ton [(1) (2)]	DNR Construction Permit 95-A-337-P9

[(1)] Facility-wide limit for solvent loss from vegetable oil production. Limit applies at all times.
[(2)] Standard is a 12-month rolling average.

Other Emission Limits

Pollutant	Limits	Reference
Particulate Matter (PM) - State	0.1 gr/scf	DNR Construction Permit 95-A-337-P9, 567 IAC 23.4(7), 40 CFR 63 Subpart GGGG, 567 IAC 23.1(4)"cg"
Volatile Organic Compounds (VOC)	0.175 gal/ton [(3)]	
Total HAP	0.2 gal/ton [(4)]	

[(3)] United States v. Cargill, Incorporated, No. 05-2037JMR/FLN (D. Minn. Feb. 27, 2006) (consent decree).
[(4)] Solvent Loss Factor to be used to determine compliance according with 40 CFR 63.2840 Equation 2. Limit covers entire vegetable oil production process.

NSPS and NESHAP Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
16.01	A		NA	23.1(2)	§60.1 – §60.19
	Kb	Volatile Organic liquid storage vessels	NA	23.1(2)"ddd"	§60.110b - §60.117b
	A	General Provisions	NA	23.1(4)	§63.1 – §63.15
	GGGG	Solvent Extraction for Vegetable Oil Production	Existing	23.1(4)"cg"	§63.2830 – §63.2872

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. Cargill facility 97-01-001 is limited to a facility-wide usage of 268,275 gallons of solvent per rolling 12-month period.
   a. Record the amount of solvent loss, in gallons. Calculate and record monthly and 12-month rolling totals.
   b. For the purposes of determining compliance with the BACT limit of 0.140 gal/ton, solvent losses from startups, shutdowns and malfunctions shall be included.

B. The amount of soybeans crushed at this facility shall not exceed 1,916,250 tons per rolling 12-month period.
   a. Record the amount of soybeans processed, in bushels and tons. Calculate and record monthly and 12-month rolling totals.

C. Calculate the ratio of solvent loss to soybeans processed. Calculate and record the 12-month rolling value of this ratio. This 12-month period rolled monthly value shall also be used to verify compliance with the USA EPA Consent Decree value of 0.175 gal of hexane loss per ton of soybeans processed found under Emission Limits.

D. The owner/operator shall operate the mineral oil scrubber to capture and recover solvent whenever the extraction process is operated.

E. The emission unit (EU 16.01) and control equipment (CE-16) shall be operated and maintained according to the facility's maintenance schedule.

F. A log of all maintenance and inspection activities performed on the emission unit (EU 16.01) and control equipment (CE-16). This log shall include, but is not necessarily limited to:
   a. The date and time any inspection and/or maintenance was performed on the emission unit (EU 16.01) and/or control equipment (CE-16);
   b. Any issues identified during the inspection and the date each issue was resolved;
   c. Any issues addressed during the maintenance activities and the date each issue was resolved;
   d. Identification of the staff member performing the maintenance or inspection.

G. To demonstrate compliance with the NESHAP limit of 0.2 gallons/ton the owner/operator

shall determine the amount of soybeans processed and HAPs emitted by the methods in 40 CFR 63.2853 and 40 CFR 63.2855. Compliance with the NESHAP GGGG limit shall be determined according to 40 CFR 63.2840.

H. The owner/operator shall develop and implement a written plan for demonstrating compliance. This plan shall meet the requirements of 40 CFR 63.2851.
I. This facility shall develop and implement a written startup, shutdown and malfunction plan. This plan shall meet the requirements of 40 CFR 63.2852.
J. The owner/operator shall submit all notifications required by NESHAP subpart GGGG according to 40 CFR 63.2860.
K. The owner/operator shall submit all reports required by NESHAP subpart GGGG according to 40 CFR 63.2861.
L. The owner/operator shall keep all records required by NESHAP subpart GGGG according to 40 CFR 63.2862.

Authority for Requirement: DNR Construction Permit 95-A-337-P9

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

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

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

Stack Height, (ft, from the ground): 73
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): N/A
Exhaust Temperature (°F): 70
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 95-A-337-P9

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** ☐

Operating Requirements with Associated Monitoring and Recordkeeping, along with 40 CFR 63 Subpart GGGG, is considered CAM equivalent.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-17

Associated Equipment

Associated Emission Unit ID Numbers: EU-17.01
Emissions Control Equipment ID Number: N/A

Emission Unit vented through this Emission Point: EU-17.01
Emission Unit Description: External Combustion Boiler #2
Raw Material/Fuel: Natural Gas
Rated Capacity: 0.077 MMCF/hr

Applicable Requirements

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

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

Pollutant	Limits	Reference
Opacity	40% (1)	DNR Construction Permit 86-A-036-S6, 567 IAC 23.3(2)"d", 567 IAC 23.3(2)"b"
Particulate Matter (PM_{10})	0.70 lb/hr	
Particulate Matter (PM)	0.70 lb/hr, 0.6 lb/MMBtu	
Nitrogen Oxides (NO_x)	50.66 tons/year (2)	

(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).
(2) Total allowed for Boiler #2 and Boiler #3.

NSPS and NESHAP Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
17.01	A	General Provisions	NA	23.1(2)	§60.1 – §60.19
	Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	NA	23.1(2)"lll "	§60.40c – §60.48c

This emission unit is of the source category affected by the following federal regulation: *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters* [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 Natural Gas as fuel.

B. Only one of Boilers #2 and #3 shall be operated at any given time except for periods of startup and shutdown of the boilers.

Reporting and Recordkeeping

A. Per 40 CFR §60.40c(g)(1), the owner or operator shall record and maintain records of the amount of each fuel combusted during each operating day. As an alternative to this requirement per 40 CFR §60.40c(g)(2) and 40 CFR §60.40c(g)(3), the owner or operator may elect to either:

- Record and maintain records of the amount of each fuel combusted during each calendar month [See 40 CFR §60.40c(g)(2)] or
- Record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month [See 40 CFR §60.40c(g)(3)].

Authority for Requirement: DNR Construction Permit 86-A-036-S6

Consent Decree

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

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

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 38.5
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 4,000
Exhaust Temperature (°F): 160
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 86-A-036-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.

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-20

Associated Equipment

Associated Emission Unit ID Numbers: EU-20.01
Emissions Control Equipment ID Number: CE-20
Emissions Control Equipment Description: Bagfilter

Emission Unit vented through this Emission Point: EU-20.01
Emission Unit Description: Conveying
Raw Material/Fuel: Soybean Pellets
Rated Capacity: 20 tons/hr

Applicable Requirements

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

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 98-A-402-S3, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.05 lb/hr [(1)], 0.003 gr/dscf [(1)]	
Particulate Matter (PM)	0.006 gr.dscf [(1)]	

[(1)] BACT emission limit based on a 4-hour average.

Other Emission Limits

Pollutant	Limits	Reference
Particulate Matter (PM)	0.1 gr/scf	DNR Construction Permit 98-A-402-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): 96
Stack Opening, (inches): 7×9
Exhaust Flow Rate (acfm): 2,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical
Authority for Requirement: DNR Construction Permit 98-A-402-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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-21

Associated Equipment

Associated Emission Unit ID Numbers: EU-21.01, EU-21.02
Emissions Control Equipment ID Number: N/A

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-21	EU-21.01	Drying	Soybeans	165 tons/hr
	EU-21.02	In Process Natural Gas Usage	Natural Gas	0.04 MMCF/hr

Applicable Requirements

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

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 95-A-340-S4, 40 CFR 60 Subpart DD 567 IAC 23.1(2) "ooo"
Particulate Matter (PM_{10})	1.8 lb/hr, 0.00175 gr/dscf	
Particulate Matter (PM)	10.6 lb/hr, 0.01 gr.dscf	

Other Emission Limits

Pollutant	Limits	Reference
Particulate Matter (PM)	0.1 gr/scf	DNR Construction Permit 95-A-340-S4, 567 IAC 23.4(7), 567 IAC 23.3(3)
Sulfur Dioxide (SO_2)	500 ppmv	
Volatile Organic Compounds (VOC)	0.9 tons/year	

NSPS Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
21.01, 21.02	A	General Provisions	NA	23.1(2)	§60.1 – §60.19
	DD	Standards of Performance for Grain Elevators	NA	23.1(2)"ooo"	§60.300 – §60.304

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 operation of the bean pre-cleaner system (EP#1 Grain Cleaner) is required whenever the Grain Dryer (EP-21) is in operation.
B. The column dryer shall have column plate perorations not to exceed 2.4 mm in diameter (ca 0.094 inch).

Reporting and Recordkeeping

A. Maintain log of bean pre-cleaner system (EP#1 Grain Cleaner) operation and Berico Grain Dryer (EP-21) operation, which shall include date and time each unit is operated.
B. Verify and record diameter of column plate perorations within 60 days after the issuance of this permit and upon replacement or modification of column plates.

Authority for Requirement: DNR Construction Permit 95-A-340-S4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 21
Stack Opening, (inches, dia.): N/A
Exhaust Flow Rate (acfm): 124,000
Exhaust Temperature (°F): 80
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 95-A-340-S4

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

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-22

Associated Equipment

Associated Emission Unit ID Numbers: EU-22.01, EU-22.02
Emissions Control Equipment ID Number: N/A

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-22	EU-22.01	Drying	Soybeans	93 tons/yr
	EU-22.02	In Process Natural Gas Usage	Natural Gas	0.04 MMCF/hr

Applicable Requirements

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

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 98-A-403-S3 40 CFR 60 Subpart DD 567 IAC 23.1(2) "ooo"
Particulate Matter (PM_{10})	0.98 lb/hr, 0.00175 gr/dscf	
Particulate Matter (PM)	5.6 lb/hr, 0.01 gr.dscf	

Other Emission Limits

Pollutant	Limits	Reference
Particulate Matter (PM) - State	0.1 gr/scf	DNR Construction Permit 98-A-403-S3, 567 IAC 23.4(7), 567 IAC 23.3(3)
Sulfur Dioxide (SO_2)	500 ppmv	
Volatile Organic Compounds (VOC)	0.9 tons/year	

NSPS Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
22.01, 22.02	A	General Provisions	NA	23.1(2)	§60.1 – §60.19
	DD	Standards of Performance for Grain Elevators	NA	23.1(2)"ooo"	§60.300 – §60.304

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 operation of the bean pre-cleaner system (EP#1 Grain Cleaner) is required whenever the Grain Dryer II (EP-22) is in operation.

B. The column dryer shall have column plate perorations not to exceed 2.4 mm in diameter (ca 0.094 inch).

Reporting and Recordkeeping

A. Maintain log of bean pre-cleaner system (EP#1 Grain Cleaner) operation and Grain Dryer II (EP-22) operation, which shall include date and time each unit is operated.

B. Verify and record diameter of column plate perorations within 60 days after the issuance of this permit and upon replacement or modification of column plates.

Authority for Requirement: DNR Construction Permit 98-A-403-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 65.5
Stack Opening, (inches, dia.): N/A
Exhaust Flow Rate (acfm): 67,000
Exhaust Temperature (°F): 80
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 98-A-403-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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-23

Associated Equipment

Associated Emission Unit ID Numbers: EU-23.01, EU-23.02, EU-23.03
Emissions Control Equipment ID Number: N/A

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

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-23	EU-23.01	Reconditioned Boiler	Natural Gas	0.1843 MMCF/hr
	EU-23.02		Fuel Oil	1.25 kgal/hr
	EU-23.03		Vegetable Oil	1.25 kgal/hr

Applicable Requirements

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

Emission Limits for EU-23.01 (Natural Gas)

Pollutant	Limit	Reference
Opacity	0%, 20% (1)	DNR Construction Permit 95-A-341-S7 567 IAC 23.3(2) "d"
Particulate Matter (PM_{10})	5.06 tons/yr	DNR Construction Permit 95-A-341- S7
Particulate Matter (PM)	0.6 lb/MMBtu	DNR Construction Permit 95-A-341- S7 567 IAC 23.3(2) "b"
Sulfur Dioxide (SO_2)	500 ppmv, 29.28 tons/yr;	DNR Construction Permit 95-A-341- S7 567 IAC 23.3(3) "e"
Nitrogen Oxides (NO_x)	0.2 lb/MMBtu & 0.06 lb/MMBtu (2); 10.1 lb/hr; 50.66 tons/yr (3)	DNR Construction Permit 95-A-341- S7 40 CFR 60 Subpart Db 567 IAC 23.1(2) "ccc"
Volatile Organic Compounds (VOC)	5.06 tons/yr	DNR Construction Permit 95-A-341- S7

(1)An **e**xceedence 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 exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).
(2)Emission rate of NOx (30 day rolling average) as established by the Consent Decree- Civil Action Number 05-2037JMR/FLN
(3)Combined Limit for EP-17 (Boiler #2) and EP-23 (Boiler #3)

Emission Limits for EU-23.02 and EU-23.03 (Liquid Fuels)[4]

Pollutant	Limit	Reference
Opacity	10%; 20% [1]	DNR Construction Permit 95-A-341-S7 567 IAC 23.3(2) "d"
Particulate Matter (PM_{10})	2.5 lb/hr, 5.06 tons/yr	DNR Construction Permit 95-A-341-S7
Particulate Matter (PM)	0.6 lb/MMBtu	DNR Construction Permit 95-A-341-S7 567 IAC 23.3(2) "b"
Sulfur Dioxide (SO_2)	2.5 lb/MMBtu, 29.28 tons/yr, 45.47 lb/hr	DNR Construction Permit 95-A-341-S7 567 IAC 23.3(3) "e"
Nitrogen Oxides (NO_x)	0.2 lb/MMBtu & 0.06 lb/MMbtu[2], 21.1 lb/hr, 50.66 tons/yr [3]	DNR Construction Permit 95-A-341-S7 40 CFR 60 Subpart Db 567 IAC 23.1(2) "ccc"
Volatile Organic Compounds (VOC)	1.3 lb/hr, 5.06 tons/yr	DNR Construction Permit 95-A-341-S7

[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).

[2]Emission rate of NOx (30 day rolling average) as established by the Consent Decree- Civil Action Number 05-2037JMR/FLN

[3] Combined Limit for EP-17 (Boiler #2) and EP-23 (Boiler #3)

[4]Liquid Fuels are limited to #2 Fuel Oil and Vegetable Oil.

NSPS and Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
23.01, 23.02, 23.03	A	General Provisions	NA	23.1(2)	§60.1 – §60.19
	Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	NA	23.1(2)"ccc"	§60.40b – §60.48b

This emission unit is of the source category affected by the following federal regulation: *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters* [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. Only one of Boilers #2 and #3 shall be operated at any given time except for periods of startup and shutdown of the two boilers.

B. Boiler #3 shall be limited to firing on natural gas, #2 fuel oil, or vegetable oil

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

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

E. This plant shall not use more than 1,600,000 gallons of #2 fuel oil or vegetable oil as fuel per rolling twelve month period.

Reporting and Recordkeeping

A. The permittee shall maintain the following monthly records:

i. The plant-wide total quantity of #2 fuel oil and vegetable oil combusted (in gallons); and,

ii. A determination of the 12-month rolling total of #2 fuel oil and vegetable oil combusted (in gallons), plant-wide.

B. Maintain records as to the sulfur content (% by weight) of the vegetable oil.

C. The owner or operator of this emission unit shall follow the compliance requirements of 40 CFR§60.45b and 40 CFR§60.46b and the monitoring requirements of 40 CFR§60.47b and 40 CFR§60.48b.

D. The owner or operator of this emission unit shall follow the notification, reporting, and recordkeeping requirements of 40 CFR§60.49b.

Authority for Requirement: DNR Construction Permit 95-A-341-S7

Consent Decree

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

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

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 100
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 33,000
Exhaust Temperature (°F): 350
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 95-A-341- S7

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

Monitoring Requirements

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

Continuous Emission Monitoring

The owner/operator of this boiler shall install, performance evaluate, calibrate, maintain, and continuously operate a continuous emissions monitoring system (CEMS) and continuously record the output of the system for the measurement of NO_x for Boiler #3. The CEMS shall meet the requirements summarized below:

A. All emission averages shall be the arithmetic average emission rate.
B. Except for periods associated with system breakdowns, repairs, calibration checks, and zero and span adjustments, the CEMS shall be in continuous operation. The CEMS shall complete a minimum of one cycle of sampling, analyzing, and data recording for each successive 15-minute period.
C. The CEMS shall continuously meet all the data recovery and performance requirements outlined in 40 CFR 60.48b. Should the CEMS fail to meet the data recovery and quality requirements that are specified in the reference subpart, the owner/operator shall immediately take all necessary corrective measures to return the CEMS to the requirements of the above referenced NSPS subpart. Failure to correct the situation will constitute a violation of the CEMS operating requirements.
D. The owner/operator shall check the system periodically to determine if the CEMS readings are both accurate and precise. Daily quality assurance (QA) checks shall be done in accordance within the minimum requirements of 40 CFR 60.13 for each parameter monitored by assessing the precision and accuracy of the CEMS data using, at a minimum the procedures of 40 CFR 60, Appendix F, Procedure 1.
E. CEMS data are recorded during periods of CEMS breakdowns, repairs, calibration checks, zero and span adjustments and periods of boiler non-operation shall not be included in the data averages computed to demonstrate compliance.

Authority for Requirement: DNR Construction Permit 95-A-341-S7

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling

operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-23.2

Associated Equipment

Associated Emission Unit ID Numbers: EU-23.21, EU-23.22, EU-23.23
Emissions Control Equipment ID Number: N/A

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-23.2	EU-23.21	Boiler #3 Heat Recovery Stack	Natural Gas	0.1843 MMCF/hr
	EU-23.22		Fuel Oil	1.25 kgal/hr
	EU-23.23		Vegetable Oil	1.25 kgal/hr

Applicable Requirements

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

Emission Limits for EU-23.21 (Natural Gas)

Pollutant	Limit	Reference
Opacity	0%, 20% (1)	DNR Construction Permit 07-A-989-S1 567 IAC 23.3(2) "d"
Particulate Matter (PM_{10})	5.06 tons/yr	DNR Construction Permit 07-A-989-S1
Particulate Matter (PM)	0.6 lb/MMBtu	DNR Construction Permit 07-A-989-S1 567 IAC 23.3(2) "b"
Sulfur Dioxide (SO_2)	29.28 tons/yr, 500 ppmv	DNR Construction Permit 07-A-989-S1 567 IAC 23.3(3) "e"
Nitrogen Oxides (NO_x)	0.2 lb/MMBtu & 0.06 lb/MMBtu(2), 10.1 lb/hr, 50.66 tons/yr (3)	DNR Construction Permit 07-A-989-S1 40 CFR 60 Subpart Db 567 IAC 23.1(2) "ccc"
Volatile Organic Compounds (VOC)	5.06 tons/yr	DNR Construction Permit 07-A-989-S1

(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).
(2)Emission rate of NOx (30 day rolling average) as established by the Consent Decree – Civil Action Number 05-2037JMR/FLN
(3) Combined Limit for EP-17 (Boiler #2) and EP-23 (Boiler #3)

Emission Limits for EU-23.22 and EU-23.23 (Liquid Fuels)

Pollutant	Limit	Reference
Opacity	10%, 20% (1)	DNR Construction Permit 07-A-989-S1 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	2.5 lb/hr, 5.06 tons/yr	DNR Construction Permit 07-A-989-S1
Particulate Matter (PM)	0.6 lb/MMBtu	DNR Construction Permit 07-A-989-S1 567 IAC 23.3(2)"b"
Sulfur Dioxide (SO_2)	2.5 lb/MMBtu, 29.28 tons/yr, 45.47 lb/hr	DNR Construction Permit 07-A-989-S1 567 IAC 23.3(3)"e"
Nitrogen Oxides (NO_x)	0.2 lb/MMBtu & 0.06 lb/MMBtu(2), 21.1 lb/hr, 50.66 tons/yr (3)	DNR Construction Permit 07-A-989-S1 40 CFR 60 Subpart Db 567 IAC 23.1(2)"ccc"
Volatile Organic Compounds (VOC)	1.3 lb/hr, 5.06 tons/yr	DNR Construction Permit 07-A-989-S1

(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).

(2)Emission rate of NOx (30 day rolling average) as established by the Consent Decree – Civil Action Number 05-2037JMR/FLN

(3) Combined Limit for EP-17 (Boiler #2) and EP-23 (Boiler #3)

NSPS and NESHAP Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
23.21, 23.22, 23.23	A	General Provisions	NA	23.1(2)	§60.1 – §60.19
	Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	NA	23.1(2)"ccc"	§60.40b – §60.48b

This emission unit is of the source category affected by the following federal regulation: *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters* [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. Only one of Boilers #2 and #3 shall be operated at any given time except for periods of startup and shutdown of the two boilers.
B. Boiler #3 shall be limited to firing on natural gas, #2 fuel oil, or vegetable oil
C. The Sulfur content of the #2 fuel oil used in this boiler shall not exceed 0.25%, by weight.
D. The Sulfur content of the vegetable oil used in this boiler shall not exceed 0.15%, by weight.
E. This plant shall not use more than 1,600,000 gallons of #2 fuel oil or vegetable oil as fuel per rolling twelve month period.

Reporting and Recordkeeping

A. The permittee shall maintain the following monthly records:
   i. the plant-wide total quantity of #2 fuel oil and vegetable oil combusted (in gallons); and,
   ii. a determination of the 12-month rolling total of #2 fuel oil and vegetable oil combusted (in gallons), plant-wide.
B. Maintain records as to the sulfur content (% by weight) of the vegetable oil.
C. The owner or operator of this emission unit shall follow the compliance requirements of 40 CFR§60.45b and 40 CFR§60.46b and the monitoring requirements of 40 CFR§60.47b and 40 CFR§60.48b.
D. The owner or operator of this emission unit shall follow the notification, reporting, and recordkeeping requirements of 40 CFR§60.49b.

Authority for Requirement: DNR Construction Permit 07-A-989-S1

Consent Decree

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

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

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 100
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 33,000
Exhaust Temperature (°F): 350
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 07-A-989-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.

Continuous Emission Monitoring

The owner/operator of this boiler shall install, performance evaluate, calibrate, maintain, and continuously operate a continuous emissions monitoring system (CEMS) and continuously record the output of the system for the measurement of NO_x for Boiler #3. The CEMS shall meet the requirements summarized below:

A. All emission averages shall be the arithmetic average emission rate.
B. Except for periods associated with system breakdowns, repairs, calibration checks, and zero and span adjustments, the CEMS shall be in continuous operation. The CEMS shall complete a minimum of one cycle of sampling, analyzing, and data recording for each successive 15-minute period.
C. The CEMS shall continuously meet all the data recovery and performance requirements outlined in 40 CFR 60.48b. Should the CEMS fail to meet the data recovery and quality requirements that are specified in the reference subpart, the owner/operator shall immediately take all necessary corrective measures to return the CEMS to the requirements of the above referenced NSPS subpart. Failure to correct the situation will constitute a violation of the CEMS operating requirements.
D. The owner/operator shall check the system periodically to determine if the CEMS readings are both accurate and precise. Daily quality assurance (QA) checks shall be done in accordance within the minimum requirements of 40 CFR 60.13 for each parameter monitored by assessing the precision and accuracy of the CEMS data using, at a minimum the procedures of 40 CFR 60, Appendix F, Procedure 1.
E. CEMS data are recorded during periods of CEMS breakdowns, repairs, calibration checks, zero and span adjustments and periods of boiler non-operation shall not be included in the data averages computed to demonstrate compliance.

Authority for Requirement: DNR Construction Permit 07-A-989-S1

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-25

Associated Equipment

Associated Emission Unit ID Numbers: EU-25.01
Emissions Control Equipment ID Number: CE-25
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: EU-25.01
Emission Unit Description: Storage Tank
Raw Material/Fuel: Filter Aid/Trisyl
Rated Capacity: 48,000 scf/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	Limit	Reference
Opacity	5%	DNR Construction Permit 94-A-507 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.005 gr/dscf; 0.03 lb/hr; 0.13 tons/yr	DNR Construction Permit 94-A-507

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

Stack Height, (ft, from the ground): 45
Stack Opening, (inches, dia.): 5×4.5
Exhaust Flow Rate (acfm): 800
Exhaust Temperature (°F): 70
Discharge Style: Vertical
Authority for Requirement: DNR Construction Permit 94-A-507

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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 (>5 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-26

Associated Equipment

Associated Emission Unit ID Numbers: EU-26.01, EU-26.02
Emissions Control Equipment ID Number: CE-26
Emissions Control Equipment Description: Bag filter

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

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-26	EU-26.01	Bean Truck Receiving II (Receiving Pit)	Soybeans	1050 tons/hour instantaneous, 780 tons/hour operational
	EU-26.02	Bean Truck Receiving II (Conveyance)		

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.

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 96-A-1253-P7, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.87 lb/hr, 0.003 gr/dscf	
Particulate Matter (PM) - State	1.8 lb/hr, 0.006gr/dscf	

Other Emission Limits

Pollutant	Limits	Reference
Opacity (Fugitive)	5%	DNR Construction Permit 96-A-1253-P7, 40 CFR 60 Subpart DD, 567 IAC 23.1(2)"ooo"
Opacity	0%	
Particulate Matter (PM)	0.023 gr/dscm [(1)]	

[(1)] 0.023 grams per dry standard cubic meter (g/dscm) = 0.01 grains per dry standard cubic foot (gr/dscf)

NSPS Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
26.01, 26.02	A	General Provisions	NA	23.1(2)	§60.1 – §60.19
	DD	Standards of Performance for Grain Elevators	NA	23.1(2)"ooo"	§60.300 – §60.304

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 maintain the control equipment according to good manufacturing practices.
B. The owner or operator shall maintain a log of control equipment inspections and maintenance, and all actions resulting from the inspections and maintenance.
C. Bean Truck Receiving II (EP-26) shall not receive more than 780 tons of soybeans per hour, averaged daily.
D. The owner or operator shall maintain a record of the amount of beans received at Bean Truck Receiving II, in tons, each day it operates.
E. The owner or operator shall maintain a record of the amount of time Bean Truck Receiving II received beans, each day it operates.
F. The owner or operator shall calculate the average daily throughput of Bean Truck Receiving II in tons per hour by dividing the amount of beans received each day at Bean Truck Receiving II by the amount of time Bean Truck Receiving II receives beans.

Authority for Requirement: DNR Construction Permit 96-A-1253-P7

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 150
Stack Opening, (inches, dia.): 38
Exhaust Flow Rate (scfm): 34,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 96-A-1253- P7

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.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

Emission Point ID Number: EP-27

Associated Equipment

Associated Emission Unit ID Numbers: EU-27.01
Emissions Control Equipment ID Number: CE-27.01
Emissions Control Equipment Description: Cyclone

Emission Unit vented through this Emission Point: EU-27.01
Emission Unit Description: Bean Conditioner
Raw Material/Fuel: Soybeans
Rated Capacity: 218.75 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.

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0% (1)	DNR Construction Permit 98-A-404-P4, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.14 lb/hr, 0.01 gr/dscf	
Particulate Matter (PM) - State	0.28 lb/hr, 0.02 gr/dscf	

(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).

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 emission unit (EU 27.01) and control equipment (CE-27.01) shall be operated and maintained according to the facility's maintenance schedule.
B. A log of all maintenance and inspection activities performed on the emission unit (EU 27.01) and control equipment (CE-27.01). This log shall include, but is not necessarily limited to:
    a. The date and time any inspection and/or maintenance was performed on the emission unit (EU 27.01) and/or control equipment (CE-27.01);
    b. Any issues identified during the inspection and the date each issue was resolved;
    c. Any issues addressed during the maintenance activities and the date each issue was resolved;
    d. Identification of the staff member performing the maintenance or inspection.
C. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of project 18-101 the

owner or operator shall document and maintain a record of the following:
(1) A description of project 18-101,
(2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by project 18-101, and
(3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

D. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).
E. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
(1) Monitor the emission of PM, PM10 and PM2.5 that is emitted by any emissions unit affected by project 18-101.
(2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.
F. Per 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing the information required in Condition E for a period of ten (10) years after the project 18-101 is completed.
G. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: DNR Construction Permit 98-A-404-P4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40.5
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 1,606
Exhaust Temperature (°F): 200
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 98-A-404-P4

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-28

Associated Equipment

Associated Emission Unit ID Numbers: EU-28.01
Emissions Control Equipment ID Number: CE-28
Emissions Control Equipment Description: Cyclone

Emission Unit vented through this Emission Point: EU-28.01
Emission Unit Description: Pellet Cooler
Raw Material/Fuel: Soybean Pellets
Rated Capacity: 20 tons/hr

Applicable Requirements

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

BACT Emission Limits

Pollutant	Limit	Reference
Opacity	0%	DNR Construction Permit 98-A-405-P5, 567 IAC 23.3(2)"d"
Particulate Matter (PM_{10})	0.16 lb/hr, 0.003 gr/dscf	
Particulate Matter (PM) - State	0.32 lb/hr, 0.006 gr/dscf	

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 production rate of this emission unit (Pellet Cooler, EU 28.01) shall not exceed 15 tons/hr (daily average).
B. The owner or operator shall maintain the control equipment (CE-28) according to manufacturer's specifications and maintenance schedule or per a written facility specific operation and maintenance plan.

Reporting and Recordkeeping

A. A log detailing the following:
   - The date,
   - The total production for this emission unit (Pellet Cooler, EU 28.01) for each day,
   - The hours of operation for this emission unit (Pellet Cooler, EU 28.01) for each day, and
   - The average daily production rate for this emission unit (Pellet Cooler, EU 28.01).

B. A log of all inspections and maintenance of the control equipment (CE-28).
C. A log of all actions resulting from the inspections and maintenance of the control

equipment (CE-28).

Authority for Requirement: DNR Construction Permit 98-A-405-P5

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

Stack Height, (ft, from the ground): 75
Stack Opening, (inches, dia.): 20
Exhaust Flow Rate (scfm): 4,700
Exhaust Temperature (°F): 135
Discharge Style: Unobstructed vertical
Authority for Requirement: DNR Construction Permit 98-A-405-P5

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-29

Associated Equipment

Associated Emission Unit ID Numbers: EU-29.01
Emissions Control Equipment ID Number: N/A

Emission Unit vented through this Emission Point: EU-29.01
Emission Unit Description: 13.0 MMBtu/hr Boiler
Raw Material/Fuel: Natural Gas
Rated Capacity: 0.013 MMCF/hr

Applicable Requirements

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

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

Pollutant	Limit	Reference
Opacity	40%	DNR Construction Permit 99-A-677, 567 IAC 23.3(2)"d", 567 IAC 23.3(2)"b"(2)
Particulate Matter (PM)	0.6 lb/MMBtu	

NSPS and NESHAP Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
29.01	A	General Provisions	NA	23.1(2)	§60.1 – §60.19
	Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	NA	23.1(2)"lll "	§60.40c – §60.48c

This emission unit is of the source category affected by the following federal regulation: *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters* [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. The unit is restricted to the combustion of natural gas only.

Reporting and Recordkeeping

A. The requirement of 40 CFR 60.48c (g) to record and maintain the amount of fuel combusted is reduced from daily to monthly.

Authority for Requirement: DNR Construction Permit 99-A-667

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 38
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (acfm): 5,800
Exhaust Temperature (°F): 600
Discharge Style: Vertical
Authority for Requirement: DNR Construction Permit 99-A-667

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-30

Associated Equipment

Associated Emission Unit ID Numbers: EU-30
Emissions Control Equipment ID Number: CE-30
Emissions Control Equipment Description: Bin Vent Filter

Emission Unit vented through this Emission Point: EU-30
Emission Unit Description: Meal Flow Additive Tank
Raw Material/Fuel: Meal Additive
Rated Capacity: 19.5 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	Limit	Reference
Opacity	No VE [(1)]	DNR Construction Permit 02-A-282-S1, 567 IAC 23.3(2)"d", 567 IAC 23.3(2)"a"
Particulate Matter (PM)	0.1 gr/dscf	

[(1)] If visible emissions are observed other than startup, shutdown, or malfunction a stack test may be required to demonstrate compliance with the particulate standard. This standard is in lieu of an initial compliance test for PM.

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 control equipment associated with the emission unit that exhausts from this emission point shall be maintained according to the manufacturer's specifications.

Reporting and Recordkeeping

A. The owner or operator shall maintain a record of control equipment maintenance and inspection results.

Authority for Requirement: DNR Construction Permit 02-A-282-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 65
Stack Opening, (inches, dia.): 7
Exhaust Flow Rate (cfm): 600 when filling
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 02-A-282-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.

Opacity Monitoring

Visible emissions shall be observed on a weekly basis to ensure none occur when the emission unit on this emission point is at or near full capacity. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer form conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible emissions 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.
Authority for Requirement: 567 IAC 22.108(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 22.108(3)

Emission Point ID Number: EP-32

Associated Equipment

Associated Emission Unit ID Numbers: EU-32
Emissions Control Equipment ID Number: CE-32
Emissions Control Equipment Description: Bag filter

Emission Unit vented through this Emission Point: EU-32
Emission Unit Description: Soybean CoProduct Storage
Raw Material/Fuel: Soybean CoProduct
Rated Capacity: 8 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	Limit	Reference
Opacity	40% (1)	DNR Construction Permit 02-A-555-S1, 567 IAC 23.3(2)"d"
Particulate Matter (PM)	0.005 gr/dscf	

(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).

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 control equipment shall be inspected and maintained according to manufacturer's specifications.

Reporting and Recordkeeping

A. The owner or operator shall maintain a record of control equipment maintenance and inspection results.

Authority for Requirement: DNR Construction Permit 02-A-555-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 97
Stack Opening, (inches, dia.): 7×9
Exhaust Flow Rate (scfm): 1,000
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 02-A-555-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-33

Associated Equipment

Associated Emission Unit ID Numbers: EU-33
Emissions Control Equipment ID Number: N/A

Emission Unit vented through this Emission Point: EU-33
Emission Unit Description: Vegetable Oil Refinery
Raw Material/Fuel: Vegetable Oil
Rated Capacity: 1,180 Million lb/yr

Applicable Requirements

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

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

Pollutant	Limit	Reference
Opacity	40%	DNR Construction Permit 03-A-028-S1, 567 IAC 23.3(2)"d"
Volatile Organic Compounds (VOC)	36.0 tons/yr [(1)]	
Hazardous Air Pollutant (Single HAP)	23.4 tons/yr [(2)]	

[(1)] Limit is for VOCs from oil from outside suppliers, all VOCs from oil produced at this plant is accounted for in Construction Permit Number 95-A-337-S6.

[(2)] Potential to emit for n-hexane (CAS # 110543) emissions from the refining of oil from outside suppliers, based on 65% of the potential to emit for VOC.

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 amount of vegetable oil received from outside suppliers that is processed in the Refinery Process at this plant shall not exceed 720,000,000 pounds in any rolling twelve-month period. This shall include crude vegetable oil and semi-refined vegetable oil.

B. The total amount of vegetable oil processed in the Refinery Process at this plant shall not exceed 1,180,000,000 pounds in any rolling twelve-month period.

Reporting and Recordkeeping

A. The permittee shall keep records on the VOC and the HAP content of the vegetable oil that is received from outside suppliers for processing in the Refinery. A sample of oil shall be taken from each truck and railcar that deliver oil from an outside supplier. During a 24 hour period, a composite sample from all trucks and/or railcars that contain the same type of oil from the same facility shall be prepared and analyzed for VOC (ppm by wt.) This shall include both crude and semi-refined vegetable oils.

B. The analysis for VOC may be reduced for semi-refined vegetable oil received from outside suppliers in the following way. The oil shall be sampled and analyzed in accordance with the procedure described in Condition (A) for a three month period. If no VOC is detected in the semi-refined oil, the analysis may be reduced to a monthly analysis of a composite sample from all trucks and/or railcars that contain the same type of oil from the same facility. The composite sample shall be composed of a sample of oil from each truck and railcar that deliver oil from the outside supplier during a period of a month. If the monthly analysis shows that the oil contains VOC, the sampling and analysis shall return to the procedure described in Condition (A).

C. The permittee shall keep the following monthly records:

i. The total amount of vegetable oil that is processed in the Refinery Process at this plant (pounds).

ii. The rolling 12-month total of the amount of vegetable oil that is processed in the Refinery Process at this plant (pounds).

iii. The amount of vegetable oil received from outside suppliers that are processed in the Refinery Process at this plant (pounds). This shall include both crude and semi-refined vegetable oils.

iv. The rolling 12-month total of the amount of vegetable oil received from outside suppliers that are processed in the Refinery Process at this plant (pounds). This shall include both crude and semi-refined vegetable oils.

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

vi. The rolling 12-month emission rate of VOC from the processing of vegetable oil received from outside suppliers in the Refinery Process at this plant (tons).

vii. The amount of HAP emitted from the processing of vegetable oil received from outside suppliers in the Refinery Process at this plant (tons).

viii. The rolling 12-month emission rate of HAP from the processing of vegetable oil received from outside suppliers in the Refinery Process at this plant (tons).

Authority for Requirement: DNR Construction Permit 03-A-028-S1

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-38

Associated Equipment

Associated Emission Unit ID Numbers: EU-38.01
Emissions Control Equipment ID Number: CE-38
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-38.01
Emission Unit Description: Dehulling Process
Raw Material/Fuel: Soybean
Rated Capacity: 218.75 ton/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	Limit	Reference
Opacity	40% [(1)]	DNR Construction Permit 18-A-167, 567 IAC 23.3(2)"d", 567 IAC 23.4(7)
Particulate Matter ($PM_{2.5}$)	0.58 lb/hr	
Particulate Matter (PM_{10})	0.87 lb/hr	
Particulate Matter (PM) - State	0.87 lb/hr, 0.1 gr/dscf	

[(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).

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 emission unit (EU 38.01) and control equipment (CE-38) shall be operated and maintained according to the facility's maintenance schedule.
B. A log of all maintenance and inspection activities performed on the emission unit (EU 38.01) and control equipment (CE-38). This log shall include, but is not necessarily limited to:
    a. The date and time any inspection and/or maintenance was performed on the emission unit (EU 38.01) and/or control equipment (CE-38);
    b. Any issues identified during the inspection and the date each issue was resolved;
    c. Any issues addressed during the maintenance activities and the date each issue was resolved;
    d. Identification of the staff member performing the maintenance or inspection.

C. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of project 18-101 the owner or operator shall document and maintain a record of the following:
   (1) A description of project 18-101,
   (2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by project 18-101, and
   (3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

Authority for Requirement: DNR Construction Permit 18-A-167

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 50
Stack Opening, (inches, dia.): 40
Exhaust Flow Rate (scfm): 34,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 18-A-167

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.

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
PM – State	Stack test (1)	One time	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
PM_{10}	Stack test (1)	One time	1 hour	40 CFR 51, Appendix M, 201A with 202
$PM_{2.5}$	Stack test (1)	One time	2 hours	40 CFR 51, Appendix M, 201A with 202

(1) The owner or the owner's authorized agent shall demonstrate compliance with the emission limitations contained in Emission Limits within the applicable time period specified below:

- Within sixty (60) days after achieving the maximum production rate and no later than one hundred eighty (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.
- Within ninety (90) days of the issuance of this permit if there is no physical modification to any emission units or control equipment.

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring Plan for Cargill, Inc.
Facility located in Sioux City, Iowa

EP 38 – Dehulling

I. Background

A. Emissions Unit

Description:	Dehulling Process
Identification:	EP 38
Facility:	Cargill, Inc. – Sioux City, IA

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.:	Permit # 18-A-167
Emission Limit or Standard:	0.87 lb/hr PM
Current Monitoring requirements:	Daily Pressure drop readings, monthly process rate monitoring, weekly visible emissions checks when operating.

C. Control Technology — Baghouse

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily to ensure that pressure drop is between 0.25 inches H_2O and 8 inches H_2O during the material handling operation of the unit.

C. Indicator Range

0.25 to 8 inches of H_2O

D. QIP (Quality Improvement Plan) Threshold (Optional)

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness:	An increase in pressure drop above 8 inches of water would indicate a decrease in the performance of the baghouse and potentially indicate an increase in particulate matter.

Verification of operational status:	Records of pressure drop readings will be maintained for five years
QA/QC practices and criteria:	The facility shall check pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop greater than four inches of water is observed, corrective action will be taken.
Monitoring frequency:	Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

III. Justification

A. Background

This emission point is in part of the prep process. EP 38 involves the dehulling process where the soybean hulls are cracked and/or removed from the soybeans prior to further processing. The emissions from this source are controlled by a bag filter.

B. Rationale for Selection of Performance Indicator

The daily pressure drop readings were selected as the performance indicator because it is indicative of operation of the baghouse in a manner necessary to comply with the particulate emission standard. An increase in pressure drop beyond eight inches of water would indicate a reduced performance of this baghouse. Therefore, the detection of excessive pressure drop is used as a performance indicator.

C. Rationale for Selection of Indicator Level

The selected indicator range is a pressure drop of 0.25 to 8 inches of water. If a pressure drop greater than 8 inches of water is observed, corrective action will be taken.

A pressure drop of 0.25 to 8 inches of water was selected as an indicator range because a pressure drop greater than 8 inches of water is indicative of a potential increase in particulate emissions due to a decrease in the performance of this baghouse. If this baghouse is operating properly, there will not be a pressure drop greater than 8 inches of water except during start up, shutdown and upset conditions.

The selected QIP threshold for the baghouse is six excursions in a six-month reporting period. If the QIP threshold is exceeded in a semi-annual reporting period, a QIP will be developed and implemented.

IV. General Conditions

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

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*

2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*

3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*

4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*

5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 22.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*

2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permitting & Standards Branch, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of

deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:
1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:
1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
    a. The date, place and time of sampling or measurements
    b. The date the analyses were performed.
    c. The company or entity that performed the analyses.
    d. The analytical techniques or methods used.

e. The results of such analyses; and

f. The operating conditions as existing at the time of sampling or measurement.

g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

a. Comply with all terms and conditions of this permit specific to each alternative scenario.

b. Maintain a log at the permitted facility of the scenario under which it is operating.

c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;

b. Compliance test methods specified in 567 Chapter 25; or

c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

a. Any monitoring or testing methods provided in these rules; or

b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the

case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

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

i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and expected duration of the excess emission.

iv. The cause of the excess emission.

v. The steps being taken to remedy the excess emission.

vi. The steps being taken to limit the excess emission in the interim period.

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

i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and duration of the excess emission.

iv. The cause of the excess emission.

v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

vi. The steps that were taken to limit the excess emission.

vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

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

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The facility at the time was being properly operated;

c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and

d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an

emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

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

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

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

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

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

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.

b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);

c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);

d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));.

e. The changes comply with all applicable requirements.

f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,

ii. The date on which the change will occur,

iii. Any change in emission as a result of that change,

iv. The pollutants emitted subject to the emissions trade

v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.

vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and

vii. Any permit term or condition no longer applicable as a result of the change.

567 IAC 22.110(1)

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

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

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

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that does any of the following:

i. Correct typographical errors

ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;

iii. Require more frequent monitoring or reporting by the permittee; or

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

i. Do not violate any applicable requirement;

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;

iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

ii. The permittee's suggested draft permit;

iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

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

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

3. Significant Title V Permit Modification.

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

participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.
The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.111-567 IAC 22.113*

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. *567 IAC 23.2 <u>except</u> 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

    a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.

    b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

    c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

    d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

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

    a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.

    b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.

    c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.

    d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)

    e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

    f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

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

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
    a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
    b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
    c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
    a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
    b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
    c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
    d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
    e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*
5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
    a. Such applicable requirements are included and are specifically identified in the permit; or

b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of 567 IAC 22.111(1). *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department’s request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-9526

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.
567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

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

G32. Contacts List

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

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

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

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

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

Field Office 1
909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2
2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3
1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4
1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-0268

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

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

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

V. Appendix A

A. 40 CFR Part 60 Subpart A – General Provisions

http://www.ecfr.gov/cgi-bin/text-idx?SID=966ba7a6c29ae327d452070f9b1db295&node=sp40.7.60.a&rgn=div6

B. 40 CFR Part 60 Subpart Db –Standards of Performance for Industrial, Commercial, Institutional Steam Generating Unit

http://www.ecfr.gov/cgi-bin/text-idx?SID=966ba7a6c29ae327d452070f9b1db295&node=sp40.7.60.d_0b&rgn=div6

C. 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial, Commercial, and Institutional Steam Generating Unit

http://www.ecfr.gov/cgi-bin/text-idx?SID=966ba7a6c29ae327d452070f9b1db295&node=sp40.7.60.d_0c&rgn=div6

D. 40 CFR Part 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels

http://www.ecfr.gov/cgi-bin/text-idx?SID=966ba7a6c29ae327d452070f9b1db295&node=sp40.7.60.k_0b&rgn=div6

E. 40 CFR Part 60 Subpart DD – Standards of Performance for Grain Elevators

http://www.ecfr.gov/cgi-bin/text-idx?SID=966ba7a6c29ae327d452070f9b1db295&node=sp40.7.60.dd&rgn=div6

F. 40 CFR Part 63 Subpart A – General Provision

http://www.ecfr.gov/cgi-bin/text-idx?SID=966ba7a6c29ae327d452070f9b1db295&node=pt40.10.63&rgn=div5#sp40.10.63.a

G. 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?SID=966ba7a6c29ae327d452070f9b1db295&node=sp40.13.63.gggg&rgn=div6

H. 40 CFR Part 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?SID=966ba7a6c29ae327d452070f9b1db295&node=sp40.14.63.ddddd&rgn=div6

I. 40 CFR Part 61 Subpart M – National Emission Standard for Asbestos
https://www.ecfr.gov/cgi-bin/text-idx?SID=11de2ae2f721ea625413288561b529b8&mc=true&node=sp40.10.61.m&rgn=div6

VI. Appendix B

Consent Decree – Civil Action Number 05-2037JMR/FLN
http://www.iowadnr.gov/InsideDNR/RegulatoryAir/OperatingPermits/DraftFinalPermits.aspx