

**Iowa Department of Natural Resources
Title V Operating Permit**

**Name of Permitted Facility: Ag Processing Inc. – Sergeant Bluff
Facility Location: 2753 Port Neal Circle, Sergeant Bluff, IA 51054
Air Quality Operating Permit Number: 99-TV-004R2
Expiration Date: October 31, 2022
Permit Renewal Application Deadline: April 30, 2022**

**EIQ Number: 92-0053
Facility File Number: 97-04-005**

Responsible Official

**Name: Ernie Kiley
Title: Vice President of Operations
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Permit Contact Person for the Facility

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

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Air Operating Permits Section

Date

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Abbreviations

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

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: Ag Processing Inc. – Sergeant Bluff
 Permit Number: 99-TV-004R2

Facility Description: Soybean Extraction (SIC 2075)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP 1	EU 1	South Truck Grain Receiving	75-A-222-S3
	EU 2	Center Truck Grain Receiving	
	EU 3	Rail & North Truck Grain Receiving	
EP 2	EU 4	Grain Dryer	96-A-007-S2
EP 3	EU 5	Soybean Storage Bins	75-A-225-S5
EP 5	EU 9	Annex Reclaim Process	NA
EP 6	EU 10	Flat Storage	02-A-304-S2
EP 8	EU 12	Tempering Storage Bin 39	02-A-305
EP 9	EU 13	Tempering Storage Bin 40	02-A-306
EP 10	EU 14	Tempering Storage Bin 41	02-A-307
EP 11	EU 15	Tempering Storage Bin 44	02-A-308
EP 12	EU 16	Tempering Storage Bin 45	02-A-309
EP 13	EU 17	Tempering Storage Bin 46	02-A-310
EP 46	EU 61	Tempering Storage Bin #42B	02-A-311
EP 47	EU 62	Tempering Storage Bin #43B	02-A-312
EP 48	EU 63	Tempering Storage Bin #42A	02-A-313
EP 49	EU 64	Tempering Storage Bin #43A	02-A-314
EP 15	EU 20	Soybean Cracking/Dehulling	88-A-087-S5
	EU 29		
	EU 80		
	EU 81		
EP 17	EU 30	Flaker Mill	95-A-509-S1
EP 18	EU 31	Bean Conditioner	02-A-315-S2
EP 19	EU 32	Raw Flake Drag	02-A-316-S1
EP 28	EU 42	Hull Receiving	96-A-068-S1
EP 29	EU 44	Meal Bin #5	03-A-413-S1
EP 30	EU 45	Meal Bin #6	03-A-414-S1
EP 31	EU 46	Meal Bin #7	03-A-415-S1
EP 32	EU 47	Meal Bin #8	03-A-416-S1
EP 33	EU 48	Meal Bin #9	03-A-417-S1
EP 34	EU 49	Meal Bin #10	03-A-418-S1

Equipment List (continued)

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP 35	EU 50	Meal Bin #11	03-A-419-S1
EP 37	EU 52	Meal Bin #13	03-A-420-S1
EP 39	EU 54	Meal Loadout Reclaim Hopper	NA
EP 40	EU 55	Truck Loadout	89-A-058-S4
EP 41	EU 56	Rail Loadout	NA
EP 42	EU 57	Barge Loadout	NA
EP 43	EU 58	Soy Oil Process	03-A-080-P1
EP 44	EU 59	Cleaver Brooks Boiler	74-A-111
EP 45	EU 60	Babcock & Wilcox Boiler	92-A-032
EP 50	EU 65	Fire Pump	NA
EP 56	EU 69	Catalyst Storage Tank #2	96-A-037-S9
	EU 70	Catalyst Storage Tank #1	
	EU 71	Methyl Ester Process Line	
	EU 308	Methyl Ester Process Line	
	EU 309	Methanol Storage Tank	
EP 59	EU 74	Meal Dryer/Cooler Deck 1	95-A-854
EP 60	EU 75	Meal Dryer/Cooler Deck 2	95-A-855
EP 61	EU 76	Meal Dryer/Cooler Deck 3	95-A-856
EP 62	EU 77	Meal Dryer/Cooler Cooler Deck	95-A-857
EP 68	EU 82	Hull Grinding	03-A-421
EP 70	EU 83	Meal Surge Bin	03-A-423
	EU 84	Meal Grinding	
EP 71	EU 85	Pellet Cooling	03-A-424
EP 74	EU 43	Flowability Receiver	06-A-786
EP 75	EU 88	Pellet Receiving	06-A-783-S1
EP 76	EU 89	Pellet Receiving	06-A-784-S1
EP 77	EU 41	Elevator Leg Aspiration	75-A-226-S4
EP 78	EU 90	Rail Loadout Aspiration	06-A-785-S2
EP 79	EU 91	Amino Cooker	07-A-624-S1
EP 80	EU 92	Amino Dryer	07-A-625-S1
EP 81	EU 93	Amino Cooler	07-A-626-S1
EP 82	EU 94	Meal Surge Tank	07-A-627-S1
EP 83	EU 95	Meal Silo	07-A-628-S1
EP 84	EU 96	Meal Silo	07-A-629-S1
EP 85	EU 97	Upper Elevator Aspiration	11-A-497
	EU 6	Soybean Cleaner	
	EU 7	Tripper Process	
	EU 87	Steel Bin	
EP 86	EU 98	Wet Bean Storage	11-A-498
EP 87	EU 99	Pod Grinder Bin	11-A-499
EP 200	EU 200	Bulk DE Storage Tank	15-A-047-S1
EP 201	EU 201	Bulk Clay Storage Tank	15-A-048-S1
EP 202	EU 202	Bleaching Slurry Clay Receiver	15-A-049-S1
	EU 203	Degumming Slurry/Precoat DE Receiver	
	EU 204	Bleaching Precoat DE Receiver	

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP 205	EU 205	Boiler	15-A-052
EP 206	EU 206	Cooling Tower	15-A-053-S1
EP 207	EU 207	Boiler	15-A-054-S1
EP 208	EU 208	Refinery Process	15-A-055
EP 307	EU 307	Natural Gas Boiler	NA

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU 303	Methyl Ester Storage Tank #1
EU 304	Methyl Ester Storage Tank #2
EU 305	Methyl Ester Heavys Tank (max vapor pressure 0.0143 psia)
EU 306	Methyl Ester Lights Tank (max vapor pressure 0.0143 psia)
EU 66	#2 Fuel Tank

II. Plant-Wide Conditions

Facility Name: Ag Processing Inc. – Sergeant Bluff

Permit Number: 99-TV-004R2

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

Permit Duration

The term of this permit is: Five (5) years from permit issuance

Commencing on: November 1, 2017

Ending on: October 31, 2022

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.

Plant-Wide Operational Limits & Requirements

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

Process throughput:

1. Ag Processing Inc is limited to a facility-wide usage of 158,775 gallons of solvent (hexane) per rolling 12-month period.
2. The amount of soybeans crushed at this facility shall not exceed 1,095,000 tons per rolling 12-month period.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record the amount of soybeans processed, in bushels and tons per day. Calculate and record monthly and 12-month rolling totals. The quantity of soybeans processed shall be determined according to 40 CFR 63.2855.

Authority for Requirement: DNR Construction Permit 03-A-080-P1

Solvent Loss Process Emission Limits

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 0.145 gal/ton⁽¹⁾, 448.5 tons/yr.^{(2),(3)}

Authority for Requirement: DNR Construction Permit 03-A-080-P1

⁽¹⁾ Facility-wide limit for solvent loss from vegetable oil production process.

⁽²⁾ Facility-wide limit for solvent loss from vegetable oil production process including while operating under 40 CFR 63.2850(e)(2)

⁽³⁾ This emission limit is currently under appeal by Ag Processing Inc.

Pollutant: Total Hazardous Air Pollutants (HAP)

Emission Limit(s): 0.2 gal/ton⁽⁴⁾

Authority for Requirement: DNR Construction Permit 03-A-080-P1

⁽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.

Emission Limits

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

Opacity (visible emissions): 40% opacity

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

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

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

Particulate Matter:

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

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

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

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.

4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

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

NESHAP

This facility is subject to 40 CFR Part 63 Subpart GGGG - National Emission Standards for Solvent Extraction for Vegetable Oil Production and Subpart A – General Provisions. See Appendix A link to full rule text.

Authority for Requirement: 40 CFR 63 Subpart GGGG
567 IAC 23.1(4)"cg"

III. Emission Point-Specific Conditions

Facility Name: Ag Processing Inc. – Sergeant Bluff
 Permit Number: **99-TV-004R2**

Emission Point ID Number: EP 1

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 1	South Truck Grain Receiving	CE 1: Baghouse	Soybeans	300 tons/hr.	75-A-222-S3
EU 2	Center Truck Grain Receiving		Soybeans	300 tons/hr.	
EU 3	Rail & North Truck Grain Receiving		Soybeans	600 tons/hr.	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 75-A-222-S3
 567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.002 gr/dscf, 0.46 lb/hr., 2.01 tons/yr.

Authority for Requirement: DNR Construction Permit 75-A-222-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf, 3.08 lb/hr., 13.49 tons/yr.

Authority for Requirement: DNR Construction Permit 75-A-222-S3
 567 IAC 23.3(2)"a"

Operational Limits & Requirements

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

Control equipment parameters:

- 1. Maintain the baghouse according to good air pollution control practices.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- 1. Record all maintenance and repair activities performed on the baghouse.

Authority for Requirement: DNR Construction Permit 75-A-222-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 53

Stack Opening, (inches, dia.): 35

Exhaust Flow Rate (scfm): 27,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 75-A-222-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 2

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 4	Grain Dryer	Soybeans	180 tons/hr.	96-A-007-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: DNR Construction Permit 96-A-007-S2
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

Emission Limit(s): 0.0029 gr./dscf, 2.0 lb/hr.

Authority for Requirement: DNR Construction Permit 96-A-007-S2

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: DNR Construction Permit 96-A-007-S2
567 IAC 23.4(7)

Operational Limits & Requirements

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

Process throughput:

1. The process rate of this equipment shall not exceed 180 tons/hr.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The owner of the equipment shall keep adequate records to verify the soybean process rate. The rate shall be recorded daily, averaged over a 12-month period rolled over monthly, and summarized annually.
2. The owner shall perform routine monitoring and routine maintenance according to vendor's specification of the control device. A log of actual inspections, observations, and maintenance shall be made available to the IDNR personnel upon request.

Authority for Requirement: DNR Construction Permit 96-A-007-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 88
Stack Opening, (feet equivalent): 6.7
Exhaust Flow Rate (scfm): 80,383
Exhaust Temperature (°F): 140
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 96-A-007-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 3

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 5	Soybean Storage Bins	CE 4: Baghouse CE 33: Dust Suppression	Soybeans	900 tons/hr.	75-A-225-S5

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 0%

Authority for Requirement: DNR Construction Permit 75-A-225-S5
567 IAC 23.1(2)"ooo"
40 CFR 60.302(b)(2)

Pollutant: Particulate Matter (Federal)

Emission Limit(s): 0.023 g/dscm (0.01 gr/dscf)

Authority for Requirement: DNR Construction Permit 75-A-225-S5
567 IAC 23.1(2)"ooo"

Pollutant: Particulate Matter (State)

Emission Limit(s): 0.004 gr./scf

Authority for Requirement: DNR Construction Permit 75-A-225-S5

Operational Limits & Requirements

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

Control equipment parameters:

1. Maintain the baghouse according to good air pollution control practices.

Work practice standards:

1. AGP is required to oil all soybeans prior to the loading of any soybeans into the receiving bin storage area.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record the date and time duration of all occurrences of oiling system shutdowns while soybeans are being transferred to receiving bin storage area.
2. Record the date of all occurrences of soybeans received at the AGP – Sergeant Bluff facility that are not processed and are shipped off-site. Quantify the amount of soybeans received on site but not processed at the AGP – Sergeant Bluff facility in bushels.
3. Maintain a record of all inspections and any action resulting from the inspection of Baghouse (CE4).

Authority for Requirement: DNR Construction Permit 75-A-225-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 178

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (acfm): 4,000

Exhaust Temperature (°F): Ambient (70)

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 75-A-225-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Opacity

The facility shall check for visible emissions weekly during a period when the emission unit on this emission point is handling material and record the reading. If weather conditions prevent the observer from conducting a visible emissions 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. Observations shall be done 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.

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

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 5

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 9	Annex Reclaim Process	CE 33: Dust Suppression	Soybeans	300 tons/hr.	NA

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

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 6

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 10	Flat Storage	Soybeans	900 tons/hr.	02-A-304-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: DNR Construction Permit 02-A-304-S2
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: DNR Construction Permit 02-A-304-S2
567 IAC 23.4(7)

Operational Limits & Requirements

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

Work practice standards:

1. All soybeans shall be oiled prior to the loading to Flat Storage (EU 10)

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The date each time that Flat Storage (EU 10) is operated.
2. The date and duration of all occurrences of oiling system shutdowns while soybeans are being transferred to the Flat Storage (EU 10).

Authority for Requirement: DNR Construction Permit 02-A-304-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 84
- Stack Opening, (total area): Five (5) vents totaling 1,725 inches²
- Exhaust Flow Rate (scfm): 600
- Exhaust Temperature (°F): 70
- Discharge Style: Vertical Obstructed
- Authority for Requirement: DNR Construction Permit 02-A-304-S2

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: EP 8, EP 9, EP 10, EP 11, EP 12, EP 13, EP 46,
EP 47, EP 48, EP 49**

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EP 8	EU 12	Tempering Storage Bin 39	Pellets/Soybeans	600 tons/hr.	02-A-305
EP 9	EU 13	Tempering Storage Bin 40	Soybeans	600 tons/hr.	02-A-306
EP 10	EU 14	Tempering Storage Bin 41	Soybeans	600 tons/hr.	02-A-307
EP 11	EU 15	Tempering Storage Bin 44	Soybeans	600 tons/hr.	02-A-308
EP 12	EU 16	Tempering Storage Bin 45	Soybeans	600 tons/hr.	02-A-309
EP 13	EU 17	Tempering Storage Bin 46	Soybeans	600 tons/hr.	02-A-310
EP 46	EU 61	Tempering Storage Bin #42B	Soybeans	600 tons/hr.	02-A-311
EP 47	EU 62	Tempering Storage Bin #43B	Soybeans	600 tons/hr.	02-A-312
EP 48	EU 63	Tempering Storage Bin #42A	Soybeans	600 tons/hr.	02-A-313
EP 49	EU 64	Tempering Storage Bin #43A	Soybeans	600 tons/hr.	02-A-314

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permits 02-A-305 through 02-A-314
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: DNR Construction Permits 02-A-305 through 02-A-314
567 IAC 23.4(7)

Operational Limits & Requirements

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

Work practice standards:

- 1. AGP is required to oil and pre-clean all soybeans prior to the loading of any soybeans to the Tempering Bins (Bins 39, 40, 41, 44, 45, 46, 42B, 43B, 42A, 43A).

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- 1. Record the date and time duration of all occurrences of bean cleaner or oiling system shutdowns while soybeans are being transferred to the Tempering Bins.

Authority for Requirement: DNR Construction Permits 02-A-305 through 02-A-314

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 151

Stack Opening, (inches, dia.): 14

Exhaust Flow Rate (scfm): 415 (displaced air)

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Obstructed

Authority for Requirement: DNR Construction Permits 02-A-305 through 02-A-314

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 15

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 20	Soybean Cracking/ Dehulling	CE 10: Baghouse	Soybeans	125 tons/hr.	88-A-087-S5
EU 29					
EU 80					
EU 81					

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 88-A-087-S5
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.004 gr./scf

Authority for Requirement: DNR Construction Permit 88-A-087-S5

Pollutant: Particulate Matter

Emission Limit(s): 0.005 gr./scf

Authority for Requirement: DNR Construction Permit 88-A-087-S5

Operational Limits & Requirements

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

Process throughput:

1. The maximum amount of soybeans crushed at the Sergeant Bluff shall not exceed 36,500,000 bushels of soybeans per rolling 12-month period.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record on a monthly basis, the amount of soybeans crushed at the Sergeant Bluff facility in bushels. Calculate and record rolling 12-month totals. AGP is required to retain documentation for the facility regarding the soybean crush capacity.
2. Maintain a record of all inspections and any action resulting from the inspection of Baghouse (CE10) and recovery cyclones.

Authority for Requirement: DNR Construction Permit 88-A-087-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 82

Stack Opening, (inches, dia.): 48

Exhaust Flow Rate (scfm): 36,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 88-A-087-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 17

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 30	Flaker Mill	CE 23:Cyclone	Soybean Cracks	180 tons/hr.	95-A-509-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40%

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

Pollutant: PM₁₀

Emission Limits: 0.01 gr/dscf, 0.76 lb/hr, and 3.33 tons/yr

Authority for Requirement: DNR Construction Permit 95-A-509-S1

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

Operational Limits & Requirements

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

Process throughput:

1. The process rate of this equipment shall not exceed 180 tons/hr.

Control equipment parameters:

1. Routine monitoring and maintenance will be performed according to vendor's specifications to keep the cyclone operating at high control efficiency.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Records shall be kept to verify the process rate. This rate shall be recorded daily, averaged over a 12 month period rolled over monthly, and summarized annually.
2. A log of actual inspections, observations, and maintenance of the cyclone shall be made available to the IDNR personnel upon request.

Authority for Requirement: DNR Construction Permit 95-A-509-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 53
- Stack Opening, (inches, dia.): 24
- Exhaust Flow Rate (acfm): 9,800
- Exhaust Temperature (°F): 125
- Discharge Style: NA
- Authority for Requirement: DNR Construction Permit 95-A-509-S1

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 18

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 31A	Bean Conditioner	Cracked Soybeans	150 tons/hr.	02-A-315-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-315-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 02-A-315-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): 42

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 1,331

Exhaust Temperature (°F): 170

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 02-A-315-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 19

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 32	Raw Flake Drag	Soybean Flakes	135 tons/hr.	02-A-316-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-316-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 02-A-316-S1
567 IAC 23.4(7)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 14

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): 145 (displaced air)

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 02-A-316-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 28

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 42	Hull Receiving	CE 57: Bin Vent Filter	Soybean Hulls	17 tons/hr.	96-A-068-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 96-A-068-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 96-A-068-S1

Operational Limits & Requirements

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

Process throughput:

1. The amount of soybean hulls processed through Hull/Meal Bin (EP28) shall not exceed 148,920 tons per rolling 12-month period.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record on a monthly basis, the amount of soybean hulls processed through Hull/Meal Bin (EP28) in Tons. Calculate and record rolling 12-monthly totals.
2. Maintain a record of all inspections and any action resulting from the inspection of Bin Vent Filter (CE57).

Authority for Requirement: DNR Construction Permit 96-A-068-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 93
- Stack Opening, (inches, dia.): 8
- Exhaust Flow Rate (scfm): 1,500
- Exhaust Temperature (°F): Ambient
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 96-A-068-S1

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 29, EP 30, EP 31, EP 32, EP 33, EP 34, EP 35, EP 37

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 29	EU 44	Meal Bin #5	CE 49: Bin Vent Filter	Soybean Meal	200 tons/hr.	03-A-413-S1
EP 30	EU 45	Meal Bin #6	CE 50: Bin Vent Filter	Soybean Meal	200 tons/hr.	03-A-414-S1
EP 31	EU 46	Meal Bin #7	CE 51: Bin Vent Filter	Soybean Meal	200 tons/hr.	03-A-415-S1
EP 32	EU 47	Meal Bin #8	CE 52: Bin Vent Filter	Soybean Meal	200 tons/hr.	03-A-416-S1
EP 33	EU 48	Meal Bin #9	CE 53: Bin Vent Filter	Soybean Meal	200 tons/hr.	03-A-417-S1
EP 34	EU 49	Meal Bin #10	CE 54: Bin Vent Filter	Soybean Meal	200 tons/hr.	03-A-418-S1
EP 35	EU 50	Meal Bin #11	CE 55: Bin Vent Filter	Soybean Meal	200 tons/hr.	03-A-419-S1
EP 37	EU 52	Meal Bin #13	CE 57: Bin Vent Filter	Soybean Meal	200 tons/hr.	03-A-420-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permits 03-A-413-S1 through 03-A-420-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permits 03-A-413-S1 through 03-A-420-S1

Operational Limits & Requirements

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

Process throughput:

- 1. Soybean meal loaded into Meal Bins shall be received from the AGP-Sergeant Bluff extraction process only.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- 1. Maintain a record of all inspections and any action resulting from the inspection of each associated Bin Vent Filter.

Authority for Requirement: DNR Construction Permits 03-A-413-S1 through 03-A-420-S1

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 93

Stack Opening, (inches, dia.): 4

Exhaust Flow Rate (scfm): 300

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 03-A-413-S1 through 03-A-420-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 39

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 54	Meal Loadout Reclaim Hopper	Soybean Meal	400 tons/hr.	NA

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

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 40

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 55	Truck Loadout	CE 32: Baghouse	Soybean Meal	100 tons/hr.	89-A-058-S4

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 89-A-058-S4
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 1.1 lb/hr.

Authority for Requirement: DNR Construction Permit 89-A-058-S4

Pollutant: Particulate Matter

Emission Limit(s): 1.9 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 89-A-058-S4
567 IAC 23.4(7)

Operational Limits & Requirements

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

Process throughput:

1. The throughput of this unit shall not exceed 100 tons per hour.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. For each day of operation, using records kept daily of the amount of material loaded out and the number of hours operated; determine the average hourly rate at which material was loaded out for that day. This shall be done by dividing the amount of material loaded out during that day by the number of hours which material was loaded out during that day. This calculation shall be completed for each day no later than 30 days after it occurs.

Authority for Requirement: DNR Construction Permit 89-A-058-S4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 7.6
- Stack Opening, (inches, dia.): 35
- Exhaust Flow Rate (scfm): 44,000
- Exhaust Temperature (°F): 70
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 89-A-058-S4

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
(Required for Particulate Matter emissions)
 See Appendix B for O&M Plan

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 Numbers: EP 41, EP 42

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EP 41	EU 56	Rail Loadout	Soybean Meal	500 tons/hr.	NA
EP 42	EU 57	Barge Loadout	Soybean Meal	200 tons/hr.	NA

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

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 43

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 58	Soy Oil Process	CE 43: Mineral Oil Scrubber	Soybeans	133,333 bushels/day	03-A-080-P1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 03-A-080-P1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 03-A-080-P1
567 IAC 23.3(2)"a"

Pollutant: Total Hazardous Air Pollutants (HAP)

Emission Limit(s): 0.2 gal/ton⁽²⁾

Authority for Requirement: DNR Construction Permit 03-A-080-P1

⁽²⁾ Solvent Loss Factor to be used to determine compliance according with 40 CFR 63.2840 Equation 2. Limit covers entire vegetable oil production process.

BACT Limit

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 0.145 gal/ton⁽³⁾, 448.5 tons/yr.^{(4), (5)}

Authority for Requirement: DNR Construction Permit 03-A-080-P1

⁽³⁾ Facility-wide limit for solvent loss from vegetable oil production process.

⁽⁴⁾ Facility-wide limit for solvent loss from vegetable oil production process including while operating under 40 CFR 63.2850(e)(2).

⁽⁵⁾ This emission limit is currently under appeal by Ag Processing Inc.

Operational Limits & Requirements

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

Process throughput:

1. Ag Processing Inc is limited to a facility-wide usage of 158,775 gallons of solvent (hexane) per rolling 12-month period.
2. The amount of soybeans crushed at this facility shall not exceed 1,095,000 tons per rolling 12-month period.
3. This facility shall develop and implement a written plan for demonstrating compliance. This plan shall meet the requirements of 40 CFR 63.2851.
4. This facility shall develop and implement a written startup, shutdown and malfunction plan. This plan shall meet the requirements of 40 CFR 63.2852.

Control equipment parameters:

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

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record the amount of solvent loss, in gallons. Calculate and record monthly and 12-month rolling totals. Solvent loss shall be determined according to 40 CFR 63.2853. For the purposes of determining compliance with the BACT limit of 0.145 gal/ton, solvent losses from startups, shutdowns and malfunctions shall be included unless this facility elects to operate under 40 CFR 63.2850(e)(2) due to malfunction. At the end of any such malfunction period AGP shall resume compliance with the 0.145 gal/ton emission limit.
2. Record the amount of soybeans processed, in bushels and tons per day. Calculate and record monthly and 12-month rolling totals. The quantity of soybeans processed shall be determined according to 40 CFR 63.2855.
3. Calculate the ratio of solvent loss to soybeans processed. Calculate and record the 12-month rolling value of this ratio. The ratio of solvent loss to soybeans processed for compliance with NESHAP GGGG shall be determined according to 40 CFR 63.2840.
4. This facility shall submit all notifications required by NESHAP subpart GGGG according to 40 CFR 63.2860.
5. This facility shall submit all reports required by NESHAP subpart GGGG according to 40 CFR 63.2861.
6. This facility shall keep all records required by NESHAP subpart GGGG according to 40 CFR 63.2862.

Authority for Requirement: DNR Construction Permit 03-A-080-P1
567 IAC 23.1(4)"cg"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 38
- Stack Opening, (inches, dia.): 8
- Exhaust Flow Rate (scfm): 220
- Exhaust Temperature (°F): 105
- Discharge Style: Horizontal
- Authority for Requirement: DNR Construction Permit 03-A-080-P1

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 44

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 59	Cleaver Brooks Boiler	Natural Gas/Distillate Oil #2	103.6 MMBtu/hr.	74-A-111

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40%

Authority for Requirement: DNR Construction Permit 74-A-111
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit: 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 74-A-111
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO₂) using Liquid Fuel

Emission Limit: 1.5 lb/MMBtu

Authority for Requirement: DNR Construction Permit 74-A-111

Pollutant: Sulfur Dioxide (SO₂) using Natural Gas

Emission Limit(s): 500 ppmv

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

Operational Limits & Requirements

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

NESHAP

This source is subject to 40 CFR 63 Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, and Institutional Boilers and Process Heaters. See Appendix A for rule text.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 45

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 60	Babcock & Wilcox Boiler	Natural Gas/Distillate Oil #2	75.62 MMBtu/hr.	92-A-032

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40%

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

Pollutant: Particulate Matter

Emission Limit: 0.6 lb/MMBtu

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

Pollutant: Sulfur Dioxide (SO₂) using Liquid Fuel

Emission Limit: 2.5 lb/MMBtu

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

Pollutant: Sulfur Dioxide (SO₂) using Natural Gas

Emission Limit(s): 500 ppmv

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

Operational Limits & Requirements

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

Hours of operation:

1. The hours of operation of the subject source shall not exceed 6,700 per 12-month rolling period.

Process throughput:

1. Fuels shall be limited to natural gas or number 2 fuel oil.
2. Fuel oil consumption shall not exceed 545,000 gallons per twelve (12) month rolling period.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record of monthly operating time and fuel oil consumption shall be kept adequately to document compliance.

Authority for Requirement: DNR Construction Permit 92-A-032

NESHAP

This source is subject to 40 CFR 63 Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, and Institutional Boilers and Process Heaters. See Appendix A for rule link.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

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 50

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 65	Fire Pump	Distillate Oil #2	35.7 gallons/hr.	NA

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40%

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 2.5 lb/MMBtu

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

Operational Limits & Requirements

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

NESHAP:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE).

According to 40 CFR 63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response. The 50 hours per year for non-emergency situations cannot be used for peak shaving.

Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.
2. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR 63.6655(f) for additional information.

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ

1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)

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

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 56

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 69	Catalyst Storage Tank #2	CE 36: Vent Pre-Condenser 1 CE 308: Final Condenser Vent 2 CE 309: Final Vent Scrubber	Methanol	25,695 gallons	96-A-037-S9
EU 70	Catalyst Storage Tank #1		Catalyst	8,480 gallons	
EU 71	Methyl Ester Process Line		Vegetable Oil	45 MM lbs/month	
EU 308	Methyl Ester Process Line (5 reactors)		Vegetable Oil	400,000 lbs.	
EU 309	Methanol Storage Tank		Methanol	76,310 gallons	

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 2.97 lb/hr.

Authority for Requirement: DNR Construction Permit 96-A-037-S9

Pollutant: Total HAP (Methanol)

Emission Limit(s): 2.97 lb/hr., 95% reduction or 20 ppmv

Authority for Requirement: DNR Construction Permit 96-A-037-S9
40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

Operational Limits & Requirements

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

Operating Requirements & Associated Record Keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. ME Process Line EU71 is limited to a maximum production of 530 million pounds of methyl ester per rolling 12-month period.
 - a. Record the amount of methyl ester produced from process line EU71 in pounds. Calculate and record monthly and 12-month rolling totals.
2. As specified in §63.2445(2), AG Processing Inc.-ME Plant must comply with requirements for new sources in Subpart FFFF- *Miscellaneous Organic Chemical Manufacturing* upon startup of ME Process Lines 1 and 2 and Storage Tanks.
 - a. AG Processing Inc.-ME Plant must keep all applicable records as specified in 40 CFR §63.2525.

3. As specified in §63.2460(a), Ag Processing Inc. must meet each emission limit in Table 2 of Subpart FFFF that applies to this ME Process and must meet each applicable requirement specified in paragraphs (b) and (c) of §63.2460.
4. The control equipment and monitoring devices shall be installed, calibrated, operated, and maintained, as applicable, according to manufacturer's recommendations and the requirements in Subpart FFFF- *Miscellaneous Organic Chemical Manufacturing*.
 - a. The owner or operator shall collect and record the data of the monitoring devices as specified in §63.998(c).
5. As specified in §63.990(a) (2), the owner or operator shall operate the control equipment at all times when emissions are vented to them.
6. The daily scrubber liquid flow rate for the scrubber (CE 309) shall be maintained greater than 7 gallons per minute.
 - a. The owner or operator shall install a flow meter on the scrubber (CE 309) capable of providing a continuous record of the absorbent influent liquid.
7. The daily pre-condenser (CE 36) vent exit temperature shall be maintained below 95 degrees Fahrenheit.
 - a. The owner or operator shall install an exit (product side) temperature monitoring device on the condensers capable of providing a continuous record.
8. The daily final condenser (CE 308) vent exit temperature shall be maintained below 90 degrees Fahrenheit.
 - a. The owner or operator shall install an exit (product side) temperature monitoring device on the condensers capable of providing a continuous record.
9. Ag-Processing Inc.-ME Plant is subject to applicable requirements/conditions as specified in §63.2485.
 - a. The owner or operator shall collect and record the data from the monitoring devices as specified in 63.998(b).

Authority for Requirement: DNR Construction Permit 96-A-037-S9
 40 CFR 63 Subpart FFFF
 567 IAC 23.1(4)"cf"

NSPS:

1. This emission point is subject to 40 CFR 60 Subpart VV - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Manufacturing Industry (the facility will demonstrate compliance with this subpart by complying with the requirements of 40 CFR 63 Subpart UU).
2. Emission Unit EU 309 is subject to 40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (subject only to the recordkeeping requirements).⁽¹⁾

Authority for Requirement: DNR Construction Permit 96-A-037-S9
 567 IAC 23.1(1)"nn"
 567 IAC 23.1(1)"ddd"

⁽¹⁾ As allowed in 40 CFR 63 Subpart FFFF by citation 63.2535(c), the facility elects to show compliance with 40 CFR 60 Subpart Kb by compliance with the requirements for Group 1 storage tanks.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 45
- Stack Opening, (inches, dia.): 4
- Exhaust Flow Rate (scfm): 17 - 250
- Exhaust Temperature (°F): Ambient
- Discharge Style: Horizontal
- Authority for Requirement: DNR Construction Permit 96-A-037-S9

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

Monitoring Requirements

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

Stack Testing:

Pollutant – Total VOC

Stack Test to be Completed - Within 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.

Test Method - 40 CFR 60, Appendix A, Method 18 or 320

Authority for Requirement – DNR Construction Permit 96-A-037-S9

Pollutant – Methanol

Stack Test to be Completed - Within 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.

Test Method - 40 CFR 63, Appendix A, Method 308

Authority for Requirement – DNR Construction Permit 96-A-037-S9

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 59

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 74	Meal Dryer/Cooler Deck 1	CE 39: Cyclone	Soybean Meal	125 tons/hr.	95-A-854

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40%

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

Pollutant: PM₁₀

Emission Limits: 0.008 gr/dscf, 1.38 lb/hr, and 6.04 tons/yr

Authority for Requirement: DNR Construction Permit 95-A-854

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

Operational Limits & Requirements

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

Process throughput:

1. The process rate of the meal dryers and cooler system shall not exceed 125 tons/hour.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The owner of the equipment shall keep adequate records to verify the meal process rate. This rate shall be recorded daily, averaged over a 12 month period rolled over monthly, and summarized annually.
2. The owner shall perform routine monitoring and routine maintenance according to vendor's specifications to keep the cyclone operating at high control efficiency. A log of actual inspections, observations, and maintenance shall be make available to the IDNR personnel upon request

Authority for Requirement: DNR Construction Permit 95-A-854

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 50

Stack Opening, (inches, dia.): 30

Exhaust Flow Rate (scfm): 20,113

Exhaust Temperature (°F): 170

Discharge Style: NA

Authority for Requirement: DNR Construction Permit 95-A-854

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 60

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 75	Meal Dryer/Cooler Deck 2	CE 40: Cyclone	Soybean Meal	125 tons/hr.	95-A-855

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40%

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

Pollutant: PM₁₀

Emission Limits: 0.01 gr/dscf, 1.49 lb/hr, and 6.526 tons/yr

Authority for Requirement: DNR Construction Permit 95-A-855

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

Operational Limits & Requirements

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

Process throughput:

1. The process rate of the meal dryers and cooler system shall not exceed 125 tons/hour.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The owner of the equipment shall keep adequate records to verify the meal process rate. This rate shall be recorded daily, averaged over a 12 month period rolled over monthly, and summarized annually.
2. The owner shall perform routine monitoring and routine maintenance according to vendor's specifications to keep the cyclone operating at high control efficiency. A log of actual inspections, observations, and maintenance shall be make available to the IDNR personnel upon request

Authority for Requirement: DNR Construction Permit 95-A-855

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 50
- Stack Opening, (inches, dia.): 30
- Exhaust Flow Rate (scfm): 17,436
- Exhaust Temperature (°F): 133
- Discharge Style: NA
- Authority for Requirement: DNR Construction Permit 95-A-855

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
(Required for Particulate Matter emissions)
 See Appendix B for O&M Plan

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 61

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 76	Meal Dry/Cooler Deck 3	CE 41: Cyclone	Soybean Meal	125 tons/hr.	95-A-856

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40%

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

Pollutant: PM₁₀

Emission Limits: 0.01 gr/dscf, 1.47 lb/hr, and 6.43 tons/yr

Authority for Requirement: DNR Construction Permit 95-A-856

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

Operational Limits & Requirements

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

Process throughput:

1. The process rate of the meal dryers and cooler system shall not exceed 125 tons/hour.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The owner of the equipment shall keep adequate records to verify the meal process rate. This rate shall be recorded daily, averaged over a 12 month period rolled over monthly, and summarized annually.
2. The owner shall perform routine monitoring and routine maintenance according to vendor's specifications to keep the cyclone operating at high control efficiency. A log of actual inspections, observations, and maintenance shall be make available to the IDNR personnel upon request

Authority for Requirement: DNR Construction Permit 95-A-856

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 50
- Stack Opening, (inches, dia.): 30
- Exhaust Flow Rate (scfm): 17,139
- Exhaust Temperature (°F): 125
- Discharge Style: NA
- Authority for Requirement: DNR Construction Permit 95-A-856

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
(Required for Particulate Matter emissions)
 See Appendix B for O&M Plan

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 62

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 77	Meal Dryer/Cooler Cooler Deck	CE 42: Cyclone	Soybean Meal	125 tons/hr.	95-A-857

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40%

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

Pollutant: PM₁₀

Emission Limits: 0.012 gr/dscf, 1.70 lb/hr, and 7.45 tons/yr

Authority for Requirement: DNR Construction Permit 95-A-857

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

Operational Limits & Requirements

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

Process throughput:

1. The process rate of the meal dryers and cooler system shall not exceed 125 tons/hour.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The owner of the equipment shall keep adequate records to verify the meal process rate. This rate shall be recorded daily, averaged over a 12 month period rolled over monthly, and summarized annually.
2. The owner shall perform routine monitoring and routine maintenance according to vendor's specifications to keep the cyclone operating at high control efficiency. A log of actual inspections, observations, and maintenance shall be make available to the IDNR personnel upon request

Authority for Requirement: DNR Construction Permit 95-A-857

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 50
- Stack Opening, (inches, dia.): 30
- Exhaust Flow Rate (scfm): 16,539
- Exhaust Temperature (°F): 100
- Discharge Style: NA
- Authority for Requirement: DNR Construction Permit 95-A-857

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
(Required for Particulate Matter emissions)
 See Appendix B for O&M Plan

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 68

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 82	Hull Grinding	CE 46: Baghouse	Soybean Hulls	30 tons/hr.	03-A-421

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 03-A-421
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.004 gr/scf

Authority for Requirement: DNR Construction Permit 03-A-421

Operational Limits & Requirements

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

Process throughput:

1. The maximum amount of soybean hulls processed through Hull Grinding (EP68) shall not exceed 262,800 Tons per rolling 12-month period.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record on a monthly basis, the amount of soybean hulls processed through Soybean Hull Grinding (EP68) in Tons. Calculate and record rolling 12-month totals.
2. Maintain a record of all inspections and any action resulting from the inspection of Baghouse (CE46).

Authority for Requirement: DNR Construction Permit 03-A-421

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 74
- Stack Opening, (inches, dia.): 16
- Exhaust Flow Rate (scfm): 5,000
- Exhaust Temperature (°F): Ambient
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 03-A-421

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 70

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 83	Meal Surge Bin	CE 58: Baghouse	Soybean Meal	125 tons/hr.	03-A-423
EU 84	Meal Grinding		Soybean Meal	120 tons/hr.	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 03-A-423
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.004 gr/scf

Authority for Requirement: DNR Construction Permit 03-A-423

Operational Limits & Requirements

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

Process throughput:

1. All Soybean meal processed in the Soybean Meal Grinding process (EP70) shall be received from the AGP-Sergeant Bluff extraction process only.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Maintain a record of all inspections and any action resulting from the inspection of Baghouse (CE58).

Authority for Requirement: DNR Construction Permit 03-A-423

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 70
- Stack Opening, (inches, dia.): 24
- Exhaust Flow Rate (scfm): 9,200
- Exhaust Temperature (°F): Ambient
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 03-A-423

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 71

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 85	Pellet Cooling	CE 59: Cyclone	Soybean Hull Pellets	15 tons/hr.	03-A-424

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 03-A-424
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: DNR Construction Permit 03-A-424

Pollutant: Particulate Matter

Emission Limit(s): 0.015 gr/scf

Authority for Requirement: DNR Construction Permit 03-A-424

Operational Limits & Requirements

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

Process throughput:

1. The amount of soybean hulls processed through Soybean Hull Pelletizing (EP71) shall not exceed 131,400 tons per rolling 12-month period.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record on a monthly basis, the amount of soybean hulls processed through Soybean Hull Pelletizing in Tons. Calculate and record rolling 12-month totals.
2. Maintain a record of all inspections and any action resulting from the inspection of Product Recovery Cyclone (CE59).

Authority for Requirement: DNR Construction Permit 03-A-424

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 50
- Stack Opening, (inches, dia.): 24
- Exhaust Flow Rate (scfm): 8,000
- Exhaust Temperature (°F): Ambient
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 03-A-424

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 74

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 43	Flowability Receiver	CE 62:Baghouse	Flowability Product	17 tons/hr.	06-A-786

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-786
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.1 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-786

Pollutant: Particulate Matter

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

Authority for Requirement: DNR Construction Permit 06-A-786
567 IAC 23.4(7)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 98

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 1,100

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-786

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 75 & EP 76

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 75	EU 88	Pellet Receiving	CE 63: Baghouse	Soybeans	15 tons/hr.	06-A-783-S1
EP 76	EU 89	Pellet Receiving	CE 64: Baghouse	Soybeans	15 tons/hr.	06-A-784-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permits 06-A-783-S1 & 06-A-784-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.1 lb/hr.

Authority for Requirement: DNR Construction Permits 06-A-783-S1 & 06-A-784-S1

Pollutant: Particulate Matter

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

Authority for Requirement: DNR Construction Permits 06-A-783-S1 & 06-A-784-S1
567 IAC 23.4(7)

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 98

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 1,160

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 06-A-783-S1 & 06-A-784-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No
(Required for CE 63 and CE 64)

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 77

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 41	Elevator Leg Aspiration	CE 65: Baghouse	Soybeans	625 tons/hr.	75-A-226-S4

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 75-A-226-S4
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.21 lb/hr.

Authority for Requirement: DNR Construction Permit 75-A-226-S4

Pollutant: Particulate Matter

Emission Limit(s): 0.43 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 75-A-226-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): 10

Stack Opening, (inches, dia.): 18

Exhaust Flow Rate (scfm): 2,800

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 75-A-226-S4

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 78

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 90	Rail Loadout Aspiration	CE 66: Baghouse	Soybean Meal	500 tons/hr.	06-A-785-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-785-S2
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 1.1 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-785-S2

Pollutant: Particulate Matter

Emission Limit(s): 1.9 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-785-S2
567 IAC 23.4(7)

Operational Limits & Requirements

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

Process throughput:

1. The throughput of this unit shall not exceed 170 tons per hour.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. For each day of operation, using records kept daily of the amount of material loaded out and the number of hours operated; determine the average hourly rate at which material was loaded out for that day. This shall be done by dividing the amount of material loaded out during that day by the number of hours which material was loaded out during that day. This calculation shall be completed for each day no later than 30 days after it occurs.

Authority for Requirement: DNR Construction Permit 06-A-785-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 10
- Stack Opening, (inches, dia.): 35
- Exhaust Flow Rate (scfm): 44,000
- Exhaust Temperature (°F): 70
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 06-A-785-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
(Required for Particulate Matter emissions)
 See Appendix B for O&M Plan

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 79

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 91	Amino Cooker	Soybeans	30 tons/hr.	07-A-624-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 07-A-624-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.021 lb/hr.

Authority for Requirement: DNR Construction Permit 07-A-624-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.021 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 07-A-624-S1
567 IAC 23.4(7)

Operational Limits & Requirements

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

Process throughput:

1. The maximum production rate of the amino cooker shall be 30 tons per hour.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The permit holder, owner or operator of the facility shall record the production rate of the amino cooker in tons per hour. This determination may be based on the daily production rate divided by the hours the emission unit was in operation for that day.
2. The permit holder, owner or operator of the facility shall determine the annual VOC (solvent) emissions (in tons per year) for the entire plant on a rolling twelve (12)-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 07-A-624-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 68
- Stack Opening, (inches, dia.): 8
- Exhaust Flow Rate (scfm): 250
- Exhaust Temperature (°F): 180
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 07-A-624-S1

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 80

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 92	Amino Dryer	Soybeans	30 tons/hr.	07-A-625-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 07-A-625-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.45 lb/hr.

Authority for Requirement: DNR Construction Permit 07-A-625-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.45 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 07-A-625-S1
567 IAC 23.4(7)

Operational Limits & Requirements

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

Process throughput:

1. The maximum production rate of the amino dryer shall be 30 tons per hour.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The permit holder, owner or operator of the facility shall record the production rate of the amino dryer in tons per hour. This determination may be based on the daily production rate divided by the hours the emission unit was in operation for that day.

Authority for Requirement: DNR Construction Permit 07-A-625-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 55
- Stack Opening, (inches, dia.): 40
- Exhaust Flow Rate (scfm): 5,280
- Exhaust Temperature (°F): 180
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 07-A-625-S1

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 81

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 93	Amino Cooler	CE 93: Scrubber	Soybeans	30 tons/hr.	07-A-626-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 07-A-626-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 1.54 lb/hr.

Authority for Requirement: DNR Construction Permit 07-A-626-S1

Pollutant: Particulate Matter

Emission Limit(s): 1.54 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 07-A-626-S1
567 IAC 23.4(7)

Operational Limits & Requirements

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

Control equipment parameters:

1. The Venturi Scrubber (CE 93) shall have a minimum pressure drop which is calculated as 90 percent of the average pressure drop across the wet scrubber measured during the most recent performance test demonstrating compliance with the particulate matter emission limitation.
2. The Venturi Scrubber (CE 93) shall have a minimum scrubber liquid (water) flow rate which is calculated as 90 percent of the average liquid flow rate at the inlet to the wet scrubber measured during the most recent performance test demonstrating compliance with all applicable emission limitations.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The owner or operator shall record the scrubber pressure drop on a daily basis. If the pressure drop deviates below the minimum pressure record the time, date and actions taken to correct the situation and also when the parameter is back above the minimum pressure. All excess emission reporting shall be conducted in accordance with Construction Permit Conditions 6 (Excess Emission) and 8 (Notifications, Reporting, and Recordkeeping).
2. The owner or operator shall record the scrubber liquid (water) flow rate on a daily basis. If the flow rate deviates below the minimum flow rate record the time, date and actions taken to correct the situation and also when the parameter is back above the minimum flow rate. All excess emission reporting shall be conducted in accordance with Construction Permit Conditions 6 (Excess Emissions) and 8 (Notifications, Reporting, and Recordkeeping).

Authority for Requirement: DNR Construction Permit 07-A-626-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 55

Stack Opening, (inches, dia.): 30

Exhaust Flow Rate (scfm): 13,475

Exhaust Temperature (°F): 130

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 07-A-626-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 82

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 94	Meal Surge Tank	CE 94: Bin Vent Filter	Soybeans	50 tons/hr.	07-A-627-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 07-A-627-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.026 lb/hr.

Authority for Requirement: DNR Construction Permit 07-A-627-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.026 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 07-A-627-S1
567 IAC 23.4(7)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35

Stack Opening, (inches): 4 x 5

Exhaust Flow Rate (scfm): 300

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 07-A-627-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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 Numbers: EP 83 & EP 84

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 83	EU 95	Meal Silo	CE 95: Bin Vent Filter	Soybeans	125 tons/hr.	07-A-628-S1
EP 84	EU 96	Meal Silo	CE 96: Bin Vent Filter	Soybeans	125 tons/hr.	07-A-629-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permits 07-A-628-S1 & 07-A-629-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.074 lb/hr.

Authority for Requirement: DNR Construction Permits 07-A-628-S1 & 07-A-629-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.074 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 07-A-628-S1 & 07-A-629-S1
567 IAC 23.4(7)

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 106

Stack Opening, (inches): 4 x 5

Exhaust Flow Rate (scfm): 865

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 07-A-628-S1 & 07-A-629-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No
(Required for CE 95 & CE 96)

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 85**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 97	Upper Elevator Aspiration	CE 97: Baghouse	Soybeans	990 tons/hr.	11-A-497
EU 6	Soybean Cleaner		Soybeans	180 tons/hr.	
EU 7	Tripper Process		Soybeans	180 tons/hr.	
EU 87	Steel Bin		Soybeans	900 tons/hr.	

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

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

Pollutant: Opacity

Emission Limit(s): 0%

Authority for Requirement: DNR Construction Permit 11-A-497
567 IAC 23.1(2)"ooo"

Pollutant: PM₁₀

Emission Limit(s): 0.005 gr/dscf

Authority for Requirement: DNR Construction Permit 11-A-497

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 11-A-497
567 IAC 23.1(2)"ooo"

Operational Limits & Requirements

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

Control equipment parameters:

1. Maintain the baghouse according to good air pollution control practices.

Work practice standards:

1. AGP is required to oil all soybeans prior to the loading of any soybeans into the receiving bin storage area.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record all maintenance and repair activities performed on the baghouse.
2. Record the date and time duration of all occurrences of oiling system shutdowns while soybeans are being transferred to receiving bin storage area.
3. Record the date of all occurrences of soybeans received at the AGP – Sergeant Bluff facility that are not processed and are shipped off-site. Quantify the amount of soybeans received on site but not processed at the AGP – Sergeant Bluff facility in bushels.

Authority for Requirement: DNR Construction Permit 11-A-497

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 45

Stack Opening, (inches, dia.): 34

Exhaust Flow Rate (scfm): 29,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 11-A-497

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 86**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 98	Wet Bean Storage Bin	CE 98: Baghouse	Soybeans	900 tons/hr.	11-A-498

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 11-A-498
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 11-A-498

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 11-A-498

Operational Limits & Requirements

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

Control equipment parameters:

1. Maintain the baghouse according to good air pollution control practices.

Work practice standards:

1. AGP is required to oil all soybeans prior to the loading of any soybeans into the receiving bin storage area.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record all maintenance and repair activities performed on the baghouse.
2. Record the date and time duration of all occurrences of oiling system shutdowns while soybeans are being transferred to receiving bin storage area.
3. Record the date of all occurrences of soybeans received at the AGP – Sergeant Bluff facility that are not processed and are shipped off-site. Quantify the amount of soybeans received on site but not processed at the AGP – Sergeant Bluff facility in bushels.

Authority for Requirement: DNR Construction Permit 11-A-498

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 145

Stack Opening, (inches): 13 x 14

Exhaust Flow Rate (scfm): 3,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 11-A-498

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 87**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 99	Pod Grinder Bin	CE 99: Baghouse	Soybean Pods	180 tons/hr.	11-A-499

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 11-A-499
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 11-A-499

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 11-A-499

Operational Limits & Requirements

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

Control equipment parameters:

1. Maintain the baghouse according to good air pollution control practices.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record all maintenance and repair activities performed on the baghouse.

Authority for Requirement: DNR Construction Permit 11-A-499

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 29

Stack Opening, (inches, dia.): 3

Exhaust Flow Rate (scfm): 500

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 11-A-499

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 200**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 200	Bulk DE Storage Tank	CE 200: Bin Vent Filter	DE	25 tons/hr.	15-A-047-S1

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 15-A-047-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.13 lb/hr.

Authority for Requirement: DNR Construction Permit 15-A-047-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 15-A-047-S1
567 IAC 23.3(2)"a"(1)

Operational Limits & Requirements

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

Control equipment parameters:

1. Operate and maintain the control equipment according to the manufacturer's specifications.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Maintain a record of any maintenance performed on the control equipment.

Authority for Requirement: DNR Construction Permit 15-A-047-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 62' 2"

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 1,500

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 15-A-047-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 201

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 201	Bulk Clay Storage Tank	CE 201: Bin Vent Filter	Clay	25 tons/hr.	15-A-048-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 15-A-048-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.13 lb/hr.

Authority for Requirement: DNR Construction Permit 15-A-048-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 15-A-048-S1
567 IAC 23.3(2)"a"(1)

Operational Limits & Requirements

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

Control equipment parameters:

1. Operate and maintain the control equipment according to the manufacturer's specifications.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Maintain a record of any maintenance performed on the control equipment.

Authority for Requirement: DNR Construction Permit 15-A-048-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 65' 2"

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 1,500

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 15-A-048-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 202

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 202	Bleaching Slurry Clay Receiver	CE 202: Receiving Baghouse	Bleaching Slurry	170 lb/hr.	15-A-049-S1
EU 203	Degumming Slurry/Precoat DE Receiver	CE 203: Receiving Baghouse	DE	170 lb/hr.	
EU 204	Bleaching Precoat DE Receiver	CE 204: Receiving Baghouse	DE	400 lb/hr.	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 15-A-049-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.09 lb/hr.

Authority for Requirement: DNR Construction Permit 15-A-049-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 15-A-049-S1
567 IAC 23.3(2)"a"(1)

Operational Limits & Requirements

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

Process throughput:

1. This process shall be designed and constructed so that only one of the following units may be used at a time: EU 202, 203, 204.

Control equipment parameters:

1. Operate and maintain the control equipment according to the manufacturer's specifications.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- 1. Maintain a record of any maintenance performed on the control equipment.

Authority for Requirement: DNR Construction Permit 15-A-049-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 22

Stack Opening, (inches, dia.): 5

Exhaust Flow Rate (scfm): 1,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 15-A-049-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 205**Associated Equipment**

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 205	Boiler	Natural Gas/ Fuel Oil	97 MMBtu/hr.	15-A-052

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 15-A-052
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 1.32 lb/hr., 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 15-A-052
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO₂) Burning natural gas

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 15-A-052
567 IAC 23.3(3)"e"

Pollutant: Sulfur Dioxide (SO₂) Burning fuel oil

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: DNR Construction Permit 15-A-052
567 IAC 23.3(3)"b"2

Pollutant: Nitrogen Oxides (NO_x) Burning natural gas

Emission Limit(s): 4.85 lb/hr.

Authority for Requirement: DNR Construction Permit 15-A-052

Pollutant: Nitrogen Oxides (NO_x) Burning fuel oil

Emission Limit(s): 10.09 lb/hr.

Authority for Requirement: DNR Construction Permit 15-A-052

Operational Limits & Requirements

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

Process throughput:

1. This unit shall be fired by natural gas and fuel oil #2 only.
2. The sulfur content of the fuel oil #2 fired in this unit shall not exceed 0.0015% on a weight basis.
3. The amount of fuel oil #2 fired in this unit shall not exceed 2,460,150 gallons per 12-month rolling period.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Per 40 CFR §60.48c(g)(1), the owner or operator shall record and maintain records of the amount of each fuel combusted during each operating day. As an alternative to this requirement per 40 CFR §60.48c(g)(2) and 40 CFR §60.48c(g)(3), the owner or operator may elect to either:
 - a. record and maintain records of the amount of each fuel combusted during each calendar month [See 40 CFR §60.48c(g)(2)] or
 - b. 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 §60.48c(g)(3)].
2. Record the amount of fuel oil fired in this unit, in gallons. Calculate and record monthly and 12-month rolling totals.
3. Maintain records to demonstrate the sulfur content of any fuel oil used in this unit, in weight percent, according to 40 CFR §60.48c(f).

Authority for Requirement: DNR Construction Permit 15-A-052
567 IAC 23.1(2)"III"

NESHAP

This source is subject to 40 CFR 63 Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, and Institutional Boilers and Process Heaters. See Appendix A for rule link.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 100
- Stack Opening, (inches, dia.): 42
- Exhaust Flow Rate (scfm): 20,300
- Exhaust Temperature (°F): 320
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 15-A-052

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

Monitoring Requirements

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

Stack Testing:

Pollutant – Particulate Matter⁽²⁾

Stack Test to be Completed by (date) - within sixty (60) days after achieving maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment.

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

Authority for Requirement – DNR Construction Permit 15-A-052

Pollutant - NO_x⁽²⁾

Stack Test to be Completed by (date) - within sixty (60) days after achieving maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment.

Test Method - 40 CFR 60, Appendix A, Method 7E

Authority for Requirement – DNR Construction Permit 15-A-052

⁽²⁾ To be tested while burning fuel oil

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 206

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 206	Cooling Tower (2 cells)	CE 206: Mist Eliminator	Water	7,000 gallons/min	15-A-053-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 15-A-053-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.11 lb/hr.

Authority for Requirement: DNR Construction Permit 15-A-053-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 15-A-053-S1
567 IAC 23.3(2)"a"(1)

Operational Limits & Requirements

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

Process throughput:

1. This unit shall not use chromium based water treatment chemicals.
2. The average total dissolved solids (TDS) content of the water in this cooling tower shall not exceed 3000 ppm on calendar quarterly basis.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Maintain a record of any water treatment chemicals used in this unit.
2. Monitor the TDS content by sampling or testing at least once per calendar quarter.

Authority for Requirement: DNR Construction Permit 15-A-053-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 29' 7"
- Stack Opening, (inches): 144 each cell
- Exhaust Flow Rate (scfm): 347,100 each cell
- Exhaust Temperature (°F): 70
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 15-A-053-S1

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 207

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 207	High Pressure Boiler	Natural Gas	14.6 MMBtu/hr.	15-A-054-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 15-A-054-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.11 lb/hr., 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 15-A-054-S1
567 IAC 23.3(2)"b"(2)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 15-A-054-S1
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 1.42 lb/hr.

Authority for Requirement: DNR Construction Permit 15-A-054-S1

Operational Limits & Requirements

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

Process throughput:

1. This unit shall be fired by natural gas only.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Per 40 CFR §60.48c(g)(1), the owner or operator shall record and maintain records of the amount of each fuel combusted during each operating day. As an alternative to this requirement per 40 CFR §60.48c(g)(2) and 40 CFR §60.48c(g)(3), the owner or operator may elect to either:
 - a. record and maintain records of the amount of each fuel combusted during each calendar month [See 40 CFR §60.48c(g)(2)] or
 - b. 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 §60.48c(g)(3)].

Authority for Requirement: DNR Construction Permit 15-A-054-S1
567 IAC 23.1(2)"III"

NESHAP

This source is subject to 40 CFR 63 Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, and Institutional Boilers and Process Heaters. See Appendix A for rule link.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 135

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): 2,510

Exhaust Temperature (°F): 410

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 15-A-054-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 208**Associated Equipment**

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 208	Refinery Process	Crude Vegetable Oil	2,160,000 lb/day	15-A-055

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

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

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 36.25 tons/yr.

Authority for Requirement: DNR Construction Permit 15-A-055

Operational Limits & Requirements

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

Process throughput:

1. The owner or operator shall develop and implement a written procedure for sampling oil for VOC content.
2. The owner or operator shall sample each batch of oil received from outside sources for VOC content.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record the amount of oil received from outside sources, in pounds per batch.
2. Record the VOC content of each batch of oil from outside sources, in parts per million.
3. Calculate the amount of VOC in each batch from outside sources, in tons. Calculate and record monthly and 12-month rolling totals.
4. If the calculated twelve (12) month total from 15C exceeds 29 tons, calculate the 365-day total VOC emissions from this process. The owner or operator may substitute a value of 120 ppm VOC for each batch of oil for use in the weekly calculation of the 365-day total while awaiting actual lab results. This calculation continues until the 365-day total VOC emissions is less than 29 tons. Calculations may then be returned to monthly as long as the total emissions are below 29 tons.

Authority for Requirement: DNR Construction Permit 15-A-055

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 307

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 307	Natural Gas Boiler	Natural Gas	5 MMBtu/hr.	NA

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%

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

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb/MMBtu

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

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

Operational Limits & Requirements

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

NESHAP

This source is subject to 40 CFR 63 Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, and Institutional Boilers and Process Heaters. See Appendix A for rule link.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in *567 IAC 22.105(2)*. *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance

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

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

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

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
 - a. The date, place and time of sampling or measurements
 - b. The date the analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses; and
 - f. The operating conditions as existing at the time of sampling or measurement.
 - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
 - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
 - b. Maintain a log at the permitted facility of the scenario under which it is operating.
 - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
 - a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
 - b. Compliance test methods specified in 567 Chapter 25; or
 - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a. Any monitoring or testing methods provided in these rules; or
 - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

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

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

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

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

2. Excess Emissions Reporting

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

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

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

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

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

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

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

- a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
- b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
- d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
- e. The changes comply with all applicable requirements.
- f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade

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

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

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

567 IAC 22.110(1)

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

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

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

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

i. Correct typographical errors

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

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

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

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

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

2. Minor Title V Permit Modification.

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

i. Do not violate any applicable requirement;

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

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

iv. Do not seek to establish or change a permit term or condition for which there is no

corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

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

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

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

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

ii. The permittee's suggested draft permit;

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

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

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

3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal. The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. 567 IAC 22.111-567 IAC 22.113

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

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

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

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

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

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

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

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

- a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
- d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest

meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9545

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

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

G32. Contacts List

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

Chief of Air Permits
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9500

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

Field Office 1

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

Field Office 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

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

Field Office 6

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

Polk County Public Works Dept.

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

Linn County Public Health

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

V: Appendix A: Federal Rule Web Links

40 CFR 60 Subpart Kb:

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

40 CFR 60 Subpart VV:

<http://www.ecfr.gov/cgi-bin/text-idx?SID=84319882b8c98be0378ce71235a0fc79&mc=true&node=sp40.7.60.vv&rgn=div6>

40 CFR 63 Subpart FFFF:

<http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.13.63.ffff>

40 CFR 63 Subpart GGGG

<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&SID=a041adeebafac77e0f8526d34db0b7f5&mc=true&r=PART&n=pt40.13.63#sp40.13.63.gggg>

Appendix B: Agency O&M Plans

AGP Sgt. Bluff, Iowa Baghouse Agency Operation & Maintenance Plan (EPs 40, 78)

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time, or the presence of a monitored abnormal condition. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the excursion to the department and conduct source testing within 90 days of the excursion to demonstrate compliance with the applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

Monitoring Methods and Corrective Actions

General

- Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Daily

- Visible emissions observations shall be conducted once per calendar day to ensure no visible emissions occur during the normal operation of the unit. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. If visible emission observations are unsuccessful due to weather on a given day the visible emission observations will be attempted the following day. A visible emission observation shall be made the next day that weather conditions allow.

If visible emissions are observed this would be an exceedance but not a violation. The emission unit and control equipment shall be investigated as soon as possible and any needed corrective actions to the associated operations or equipment shall be made. A written record of the observations of visible emissions and any associated corrective actions shall be kept.

This record shall be kept on-site for a minimum of five (5) years and made available upon request.

Quarterly

- Check the cleaning sequence of the baghouse.
- Check the hopper functions and performance.
- If leaks or abnormal conditions are detected the appropriate measures for remediation will be initiated and documented.

Annually

- Once per year a thorough inspection of the bags for leaks and wear. If leaks or abnormal conditions are detected the appropriate measures for remediation will be initiated and documented. Bag replacement should be documented by identifying the date and number of bags replaced.
- Inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods. If leaks or abnormal conditions are detected the appropriate measures for remediation will be initiated before the system is returned to service.
- Maintain a written record of the inspection and any action resulting from the inspection.

Recordkeeping

- Inspection records and record of any resulting corrective actions will be kept on-site for a minimum of five (5) years and made available upon request.

Quality Control

- All instruments and control equipment will be calibrated, maintained, and operated according to good air pollution control practices.

AGP Sgt. Bluff, Iowa

Cyclone Agency Operation & Maintenance Plan

(EPs 60, 61, 62)

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time, or the presence of a monitored abnormal condition. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the excursion to the department and conduct source testing within 90 days of the excursion to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

Monitoring Methods & Corrective Actions

Quarterly

- Inspect the solids discharge valve for proper operation.
- Conduct a walk-around inspection of the entire system to search for leaks. If leaks in the system are detected, the appropriate measures for remediation will be initiated and documented.

Annually

- Inspect the hopper unloading components.
- Check the barrel and collecting tube for deposits and/or excess wear or dents and clean/repair as needed to ensure proper operation.
- Clean cyclone inlet vanes (ramps or spinners) and ensure they operate according to manufacture specifications.
- If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented before the system is returned to service.
- Maintain a written record of the observations, deficiencies, and any action resulting from the inspection.

Recordkeeping

- Inspection records and record of any resulting corrective actions will be kept on-site for a minimum of five (5) years and made available upon request.

Quality Control

- All instruments and control equipment will be calibrated, maintained, and operated according to good air pollution control practices.