Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: Ag Processing, Inc – Eagle Grove
Facility Location: 500 North Commercial Eagle Grove, Iowa 50533
Air Quality Operating Permit Number: 05-TV-005R3
Expiration Date: 5/21/2028

Permit Renewal Application Deadline: 11/21/2027

EIQ Number: 92-0050
Facility File Number: 99-01-001

Responsible Official

Name:	**Lou Rickers**
Title:	**Chief Operations Officer**
Mailing Address:	**12700 West Dodge Road**
	P.O. Box 2047
	Omaha, NE 68103-2047
Phone #:	**402-496-7809**

Permit Contact Person for the Facility

Name:	**Ryan Ell**
Title:	**Compliance Coordinator**
Mailing Address:	**P.O. Box 85**
	Eagle Grove, Iowa 50533
Phone #:	**515-603-1014**

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

Marnie Stein

05/22/2023

Marnie Stein, Supervisor of Air Operating Permits Section **Date**

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Abbreviations

acfm .....actual cubic feet per minute
CFR.....Code of Federal Regulation
^{o}F.....degrees Fahrenheit
EIQ.....emissions inventory questionnaire
gr./dscf .....grains per dry standard cubic foot
IAC .....Iowa Administrative Code
IDNR .....Iowa Department of Natural Resources
MVAC .....motor vehicle air conditioner
NSPS.....new source performance standard
ppmv .....parts per million by volume
lb./hr.....pounds per hour
lb./MMBtu .....pounds per million British thermal units
scfm .....standard cubic feet per minute
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 – Eagle Grove
Permit Number: 05-TV-005R3

Facility Description: Soybean Oil Processing (SIC 2075)

Equipment List

Emission Point Number	Associated Emission Unit Number(s)	Associated Emission Unit Description	Construction Permit
1	1	Grain Receiving – East 750 Pit	81-A-092-S1
2	2	Grain Handling – 750 Drags	81-A-091-S1
3	3	Grain Receiving – West 750 Pit	81-A-093-S1
4	4	Grain Handling – 850 Drags	81-A-102-S1
5	5	Grain Receiving – 480 Pits	13-A-414
6	6	Grain Handling – 480 Drags	NA
7	7	Cracking and Dehulling – Overs Aspiration	87-A-157
8	8	Cracking and Dehulling – Primary Dehulling Aspiration 4	87-A-158
12	12	Cracking and Dehulling – Fine Hull Aspiration	81-A-109
14	14	Soybean Cracking and Dehulling	81-A-111-S2
15	15	Flaking – Flaker and Drag Aspiration	81-A-116
20	20	Hull Grinder & Auger Aspiration	93-A-155-S2
21	21	Cracking and Dehulling – Meal Grinder	81-A-113
22	22	Meal Dryer – Top West Dryer/Cooler	81-A-101 & PSD
23	23	Meal Dryer – Middle West Dryer/Cooler	81-A-100 & PSD
24	24	Meal Dryer – Bottom West Dryer/Cooler	81-A-099 & PSD
25	25	Meal Dryer – Bottom East Dryer/Cooler	81-A-096 & PSD
26	26	Meal Dryer – Middle East Dryer/Cooler	81-A-097 & PSD
27	27	Meal Dryer – Top East Dryer/Cooler	81-A-098 & PSD
31	31	Railroad Car Bulk Loading	07-A-057
33	33	North Truck Bulk Loading	93-A-415-S1
34	34a	Spreader Stoker Boiler #1	81-A-117-S2
	34b		
	34c	Steam to Turbine	
35	35	Spreader Stoker Boiler #2	81-A-118-P2
	35b		
	35c	Steam to Turbine	
37	37	Bulk Coal Conveying	88-A-029
38	38	Bulk Ash Conveying	81-A-146
39	39	Pellet Cooling Aspiration	93-A-154-S1
40	40	Soybean Dryer #1	81-A-103-S1

Emission Point Number	Associated Emission Unit Number(s)	Associated Emission Unit Description	Construction Permit
41	41	Soybean Dryer #2	81-A-104-S1
44	44	Hull Pellet Storage Bins: 15 Bins	07-A-1349-S1
45	45	North Truck Loadout: 30 Bins	07-A-1350-S1
46	46	#14 Meal Storage: 14 Bins	07-A-1351-S1
48	48	Hull Bins for the South Truck Loadout: 8 Bins	07-A-1352-S1
50	50	South Truck Bulk Loading	93-A-414-S1
51	51	South Bean Conditioner	07-A-058
52	52	Middle Bean Conditioner	07-A-059
53	53	North Bean Conditioner	07-A-060
55	55	Soy Oil Extraction Process	EPA PSD
56	56	Refinery Clay Handling	NA
57	57	Oil Refinery	17-A-079
58	58	Geka Boiler	01-A-638-S5
59	59	Hull Receiving	07-A-061
62	62	Pod Grinder System	06-A-615-S1
63	63	#6 Hull Storage: 6 Bins	07-A-1353-S1
64	64	Meal Bins at South Truck Loadout: 14 Bins	07-A-1354-S1
65	65	Rail Meal Loadout	11-A-686
66	66	Natural Gas Boiler #1	18-A-143-S2
67	67	Natural Gas Boiler #2	18-A-144-S3
68	68	North Truck Meal Loadout Equipment Aspiration #1	19-A-162-S1
69	69	North Truck Meal Loadout Equipment Aspiration #2	19-A-163-S1
70	70	Meal Storage Bin	19-A-164
71	71	Meal Storage Bin	19-A-165
72	72.1	Meal Conveyance/Scalping Equipment #1	19-A-166-S1
	72.2	Meal Conveyance/Scalping Equipment #2	
73	73	Cooling Tower (4 Cells)	22-A-056
74	74	Rotary Conditioner	22-A-083
FP1	FP1	Emergency Fire Pump	NA

Insignificant Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
32	Meal Hopper Scale
FP2	Electric Fire Pump

II. Plant-Wide Conditions

Facility Name: Ag Processing, Inc – Eagle Grove
Permit Number: 05-TV-005R3

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

Permit Duration

The term of this permit is: Five years from permit issuance
Commencing on: 5/22/2023
Ending on: 5/21/2028

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

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

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

Sulfur Dioxide (SO_2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter:
No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed on or after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.
For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

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

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

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

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 for 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 – Eagle Grove
Permit Number: 05-TV-005R3

Emission Point ID Numbers: EP 1, EP 2, EP 3, EP 4

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 1	EU 1	Grain Receiving East 750 Pit	CE 1: Baghouse	Soybeans	360 tons/hr.	81-A-092-S1
EP 2	EU 2	Grain Handling 750 Drags	CE 2: Baghouse	Soybeans	360 tons/hr.	81-A-091-S1
EP 3	EU 3	Grain Receiving West 750 Pit	CE 3: Baghouse	Soybeans	360 tons/hr.	81-A-093-S1
EP 4	EU 4	Grain Handling 850 Drags	CE 4: Baghouse	Soybeans	252 tons/hr.	81-A-102-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 Limits: 0%
Authority for Requirement: DNR Construction Permits 81-A-092-S1, 81-A-091-S1, 81-A-093-S1, 81-A-102-S1
40 CFR 60.302(b)(2)
567 IAC 23.1(2)"ooo"

Pollutant: Particulate Matter (PM) Federal
Emission Limits: 0.01 gr./dscf
Authority for Requirement: DNR Construction Permits 81-A-092-S1, 81-A-091-S1, 81-A-093-S1, 81-A-102-S1
567 IAC 23.1(2)"ooo"

Pollutant: Particulate Matter (PM) State
Emission Limits: 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Reporting & Record keeping:

1. The general notification and reporting requirements of 40 CFR 60.19.

Authority for Requirement: DNR Construction Permits 81-A-092-S1, 81-A-091-S1, 81-A-093-S1, 81-A-102-S1
40 CFR 60.19
567 IAC 23.1(2)

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Emission Point	**EP 1**	**EP 2**	**EP 3**	**EP 4**
Stack Height, (ft, from the ground)	25	25	25	180
Stack Opening, (inches)	22 x 32	22 x 32	22 x 32	30 x 58
Exhaust Flow Rate (scfm)	21,600	22,620	21,600	38,333
Exhaust Temperature (°F)	Ambient	Ambient	Ambient	Ambient
Discharge Style	NA	NA	NA	NA
Authority for Requirement	81-A-092-S1	81-A-091-S1	81-A-093-S1	81-A-102-S1

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

Monitoring Requirements

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
(Required for Particulate Matter for CE 1, CE 2, CE 3, & CE 4)
Equivalent Agency O&M plans have been included in Appendix B.

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

Emission Point ID Number: EP5

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU5	Grain Receiving – 480 Pits	CE5: Baghouse	Soybeans	450 tons/hr.	13-A-414

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 13-A-414
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: PM_{10}
Emission Limit(s): 1.63 lb/hr.
Authority for Requirement: DNR Construction Permit 13-A-414

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.63 lb/hr., 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 13-A-414
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Control equipment parameters:

1. Maintain Baghouse (CE5) according to manufacturer specifications and maintenance schedule.

Work practice standards:

1. The owner or operator shall conduct visible emissions observation on emission point (EP5) once per calendar day.

Reporting & Record keeping:

1. If the owner or operator observes visible emissions from EP5, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated operations or equipment. The owner or operator shall maintain a record of all corrective actions taken. Only corrective action records due to observed visible emissions shall be kept onsite. This requirement shall not apply on the days that this emission unit is not in operation.
2. Maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of Baghouse (CE5).

Authority for Requirement: DNR Construction Permit 13-A-414

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 25
Stack Opening, (inches): 32 x 24
Exhaust Flow Rate (scfm): 19,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-414

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

Monitoring Requirements

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
(Required for Particulate Matter for CE5)
Equivalent Agency O&M plans have been included in Appendix B.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 6

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 6	Grain Handling – 480 Drags	CE 6: Baghouse	Soybeans	450 tons/hr.	Grandfathered

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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 Limits: 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limits: 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** ☐
(Required for Particulate Matter for CE 6)
Equivalent Agency O&M plans have been included in Appendix B.

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

Emission Point ID Numbers: EP 7 & EP 8

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 7	EU 7	Cracking and Dehulling – Overs Aspiration	CE 7: Cyclone	Soybean Cracks	38.44 tons/hr.	87-A-157
EP 8	EU 8	Cracking & Dehulling – Primary Dehulling Aspiration 4	CE 8: Cyclone	Soybean Cracks	38.44 tons/hr.	87-A-158

Applicable Requirements

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

Emission Point	Opacity	Particulate Matter (PM)	Authority for Requirement
EP 7	40%	0.026 gr/dscf, 2.23 lb/hr.	87-A-157, 567 IAC 23.3(2)"d"
EP 8	40%	0.036 gr/dscf, 2.47 lb/hr.	87-A-158, 567 IAC 23.3(2)"d"

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 7 & CE 8)

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)"b"

Emission Point ID Number: EP 12

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 12	Cracking & Dehulling – Fine Hull Aspiration	CE 9:Cyclone CE 10:Cyclone CE 11: Cyclone CE 12: Baghouse	Soybean Hulls	153.75 tons/hr.	81-A-109

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 Limits: 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr./dscf
Authority for Requirement: DNR Construction Permit 81-A-109
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** ☐
(Required for Particulate Matter emissions from CE 12)
Equivalent Agency O&M plans have been included in Appendix B.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 14

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 14	Soybean Cracking & Dehulling	CE 14: Baghouse	Soybeans	153.75 tons/hr.	81-A-111-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 81-A-111-S2
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: PM_{10}
Emission Limits: 0.75 lb/hr.
Authority for Requirement: DNR Construction Permit 81-A-111-S2

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr./dscf
Authority for Requirement: DNR Construction Permit 81-A-111-S2
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Control equipment parameters:

1. The permittee shall operate and maintain the fabric filter baghouse in accordance with the recommendations of the manufacturer.

Reporting & Record keeping:

1. The permittee shall maintain records on the maintenance performed on the fabric filter baghouse.
2. The permittee shall maintain records on the emissions testing performed on this emissions unit.

Authority for Requirement: DNR Construction Permit 81-A-111-S2

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

Stack Height, (ft, from the ground): 55
Stack Opening, (inches, dia.): 16
Exhaust Flow Rate (scfm): 5,800
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 81-A-111-S2

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

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
(Required for Particulate Matter emissions from CE 14)
Equivalent Agency O&M plans have been included in Appendix B.

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 15	Flaking – Flaker & Drag Aspiration	CE 15:Cyclone	Flaked Soybeans	153.75 tons/hr.	81-A-116

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 Limits: 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr./dscf
Authority for Requirement: DNR Construction Permit 81-A-116
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** ☒

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 20

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 20	Hull Grinder & Auger Aspiration	CE 20:Baghouse	Soybean Hulls	15 tons/r.	93-A-155-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 93-A-155-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: PM_{10}
Emission Limits: 0.27 lb./hr.
Authority for Requirement: DNR Construction Permit 93-A-155-S2

Pollutant: Particulate Matter (PM)
Emission Limits: 0.27 lb/hr., 0.1 gr/dscf.
Authority for Requirement: DNR Construction Permit 93-A-155-S2
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Control equipment parameters:

1. The permittee shall operate and maintain the fabric filter baghouse in accordance with the recommendations of the manufacturer.

Reporting & Record keeping:

1. The permittee shall maintain records on the maintenance performed on the fabric filter baghouse.
2. The permittee shall maintain records on the emissions testing performed on this emissions unit.

Authority for Requirement: DNR Construction Permit 93-A-155-S2

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

Stack Height, (ft, from the ground): 38
Stack Opening, (inches): 18 x 21
Exhaust Flow Rate (scfm): 6,200
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 93-A-155-S2

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 21

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 21	Cracking & Dehulling – Meal Grinder	CE 21: Baghouse	Soybean Meal	153.75 tons/hr.	81-A-113

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 Limits: 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr./dscf
Authority for Requirement: DNR Construction Permit 81-A-113
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** ☐
(Required for Particulate Matter emissions from CE 21)
Equivalent Agency O&M plans have been included in Appendix B.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Dryer/Coolers

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 22	EU 22	Top West	CE 22: Cyclone	Soybean Meal	76.88 tons/hr	81-A-101
EP 23	EU 23	Middle West	CE 23: Cyclone	Soybean Meal	76.88 tons/hr	81-A-100
EP 24	EU 24	Bottom West	CE 24: Cyclone	Soybean Meal	76.88 tons/hr	81-A-099
EP 25	EU 25	Bottom East	CE 25: Cyclone	Soybean Meal	76.88 tons/hr	81-A-096
EP 26	EU 26	Middle East	CE 26: Cyclone	Soybean Meal	76.88 tons/hr	81-A-097
EP 27	EU 27	Top East	CE 27: Cyclone	Soybean Meal	76.88 tons/hr	81-A-098

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 (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permits 81-A-101, 81-A-100, 81-A-099, 81-A-096, 81-A-097, 81-A-098
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC's)
Emission Limit(s): 0.25 gallons VOC/ton of soybeans processed[(1)]
Authority for Requirement: U.S. EPA PSD Permit - issued August 28, 1981 and amended October 25, 1991

Pollutant: Volatile Organic Compounds (VOC's)
Emission Limit(s): 0.20 gallons VOC/ton of soybeans processed[(2)]
Authority for Requirement: U.S. EPA PSD Permit - issued August 28, 1981 and amended October 25, 1991

[(1)] Total for Meal Dryers EP 22-27
[(2)] Total for Meal Coolers EP 22-27

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Reporting & Record keeping:

1. The total amount of hexane used, in gallons for each month.
2. The total amount of hexane used, in gallons per each 12 month period rolled monthly.
3. The total amount of soybeans processed, in tons for each month.
4. The total amount of soybeans processed, in tons per 12 month period rolled monthly.
5. Calculate and record the monthly and rolled 12 month totals of gallons of hexane lost per ton of beans processed. This 12 month period rolled monthly value shall be used to verify compliance with the VOC emission limits of 0.25 gallons VOC/ton of soybeans processed (total for meal dryers EP 22-27) and 0.20 gallons VOC/ton of soybeans processed (total for meal coolers EP 22-27).

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

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 CE 22, CE 23, CE 24, CE 25, CE 26, & CE 27)
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 31

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 31	Rail Loading	CE 31: Baghouse	Soybean Meal	200 tons/hr.	07-A-057

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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 07-A-057
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: PM_{10}
Emission Limits: 0.43 lb./hr.
Authority for Requirement: DNR Construction Permit 07-A-057

Pollutant: Particulate Matter (PM)
Emission Limits: 0.43 lb/hr., 0.1 gr/dscf.
Authority for Requirement: DNR Construction Permit 07-A-057
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Control equipment parameters:

1. The permittee shall operate and maintain the fabric filter baghouse in accordance with the recommendations of the manufacturer.

Reporting & Record keeping:

1. The permittee shall maintain records on the maintenance performed on the fabric filter baghouse.
2. The permittee shall maintain records on the emissions testing performed on this emissions unit.
3. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment

shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

Authority for Requirement: DNR Construction Permit 07-A-057

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 10
Stack Opening, (inches): 17 x 20
Exhaust Flow Rate (scfm): 6,600
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 07-A-057

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

Monitoring Requirements

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
(Required for Particulate Matter emissions from CE 31)
Equivalent Agency O&M plans have been included in Appendix B.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 33

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 33	Truck Loading	CE 33: Baghouse	Soybean Meal	200 tons/hr.	93-A-415-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 93-A-415-S1
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: PM_{10}
Emission Limits: 0.7617 lb./hr
Authority for Requirement: DNR Construction Permit 93-A-415-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 1.29 lb./hr, 0.1 gr./dscf
Authority for Requirement: DNR Construction Permit 93-A-415-S1
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 operate the control equipment according to the manufacturer's specifications and recommendations.
2. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications and recommendations.
3. The owner or operator shall maintain a record of control equipment inspections and maintenance performed.

Authority for Requirement: DNR Construction Permit 93-A-415-S1

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

Stack Height, (ft, from the ground): 10
Stack Opening, (inches, dia.): 31 x 35
Exhaust Flow Rate (scfm): 30,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 93-A-415-S1

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 34

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 34a	Spreader Stoker Boiler #1	CE 34: Baghouse	Coal	146.5 MMBtu/hr.	81-A-117-S2
EU 34b			Refuse Derived Fuel		
EU 34c	Steam to Turbine	NA	Steam	10 MW	

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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 81-A-117-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.6 lb./MMBtu
Authority for Requirement: DNR Construction Permit 81-A-117-S2
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 4.7 lb./MMBtu
Authority for Requirement: DNR Construction Permit 81-A-117-S2

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

The operating requirements and associated recordkeeping for this permit shall be:

1. At the end of each month, record the amount of each type of fuel consumed in this unit over the previous month.
2. No more than two boilers located at this facility may be operated simultaneously except during periods of startup and shutdown.
3. For each period of startup and shutdown of one of the boilers located at this facility, log the unit identification as well as the date and time of the beginning and the end of the startup and/or shutdown.

4. The two natural gas boilers (EU 66 and EU 67) and the two coal fired boilers (EU 34 and EU 35) located at this facility are limited to a combined total of 126.12 tons of NOx per twelve (12) month period, rolled monthly.
5. Develop an emission factor for NOx emissions in pounds per ton of fuel from the results of the most recent stack test accepted by the Department. The emission factor shall be calculated using the average result of the most recent stack test accepted by the Department. The emission factor shall be stated in units of lbs of NOx per ton of coal. The conversion factor for subbituminous coal shall be based on a high heat value provided by the coal supplier or on a standard high heat value of 17.25 mmBtu/ton.
6. At the end of each month, determine the NOx emissions from this unit through the following means:
    a. Calculate the NOx emissions from the combustion of solid fuels over the previous month by multiplying the emissions factor developed in condition 5 above by the quantity of fuel consumed during the previous month as recorded in condition 1 above.
7. At the end of each month, calculate the total combined amount of NOx emissions over the previous month by adding together the monthly emissions from EU 66, EU67, EU34, and EU35.
8. At the end of each month, calculate the combined amount of NOx emissions over the previous twelve (12) months by adding together the last twelve (12) monthly totals calculated in condition 7 above.
9. During any period which the two coal fired boilers (EU 34 and EU35) are operating concurrently with natural gas boiler #2 (EU 67), the heat input to the coal boilers shall not exceed 233 million British Thermal Units (mmBTU) per hour.
10. For any time that the two coal fired boilers (EU 34 and EU 35) and natural gas boiler #2 (EU 67) are noted as operating simultaneously in condition 3 above, the owner or operator shall record the total mass of each fuel consumed in the two coal fired boilers (EU 34 and EU 35) during each hour that the three boilers are operating.
11. If during any time that the two coal fired boilers (EU 34 and EU 35) and natural gas boiler #2 (EU 67) are all operating simultaneously and solid fuels other than coal are combusted (either by themselves or blended with coal) the owner or operator shall collect a representative sample of the fuel other than coal that is being combusted in the two coal fired boilers (EU 34 and EU 35).
12. A proximate analysis of each sample collected as required to be sampled under condition 11 above shall be performed.
13. The owner or operator shall calculate the hourly heat input for each hour that the two coal fired boilers (EU 34 and EU 35) and natural gas boiler #2 (EU 67) are all operating simultaneously.
    a. For coal, the heat input shall be calculated by multiplying the hourly fuel feed rate recorded in condition 10 above by an average heat content of 17.25 mmBTU per short ton of coal.
    b. For any fuel other than coal, the heat input shall be calculated by multiplying the hourly fuel feed rate recorded in condition 10 and the heat content obtained from the proximate analysis required in 12 above.

Authority for Requirement: DNR Construction Permit 81-A-117-S2

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

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 200
Stack Opening, (inches, dia.): 107
Exhaust Flow Rate (scfm): 74,000
Exhaust Temperature (°F): 400
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 81-A-117-S2
*The coal boilers EU 34 and EU 35 are both physically vented through a common stack with the above listed characteristics when both are operating. Separate emission point IDs are maintained in these permits for historical purposes only.

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

Monitoring Requirements

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
(Required for Particulate Matter emissions)
Agency O&M plan included in Appendix B meets CAM requirements. No additional CAM plan is required.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 35

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 35a	Spreader Stoker Boiler #2	CE 35: Baghouse	Coal	146.5 MMBtu/hr.	81-A-118-P2
EU 35b			Refuse Derived Fuel		
EU 35c	Steam to Turbine	NA	Steam	10 MW	

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 Limits: 40%(1)
Authority for Requirement: DNR Construction Permit 81-A-118-P2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.6 lb./MMBtu
Authority for Requirement: DNR Construction Permit 81-A-118-P2
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 2.0 lb./MMBtu of heat input(1)

(1) "…of heat input" means the input of the herein-approved low sulfur content western coal. This term does not include the heat input of other fuels.

Authority for Requirement: U.S. EPA PSD Permit - issued August 28, 1981 and amended October 25, 1991

Pollutant: Nitrogen Oxides (NO_x)
Emission Limits: 0.60 lb./MMBtu input(1)

(1) "…of heat input" means the input of the herein-approved low sulfur content western coal. This term does not include the heat input of other fuels.

Authority for Requirement: U.S. EPA PSD Permit - issued August 28, 1981 and amended October 25, 1991

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

The operating requirements and associated recordkeeping for this permit shall be:

1. At the end of each month, record the amount of each type of fuel consumed in this unit over the previous month.
2. No more than two boilers located at this facility may be operated simultaneously except during periods of startup and shutdown.
3. For each period of startup and shutdown of one of the boilers located at this facility, log the unit identification as well as the date and time of the beginning and the end of the startup and/or shutdown.
4. The two natural gas boilers (EU 66 and EU 67) and the two coal fired boilers (EU 34 and EU 35) located at this facility are limited to a combined total of 126.12 tons of NOx per twelve (12) month period, rolled monthly.
5. Develop an emission factor for NOx emissions in pounds per ton of fuel from the results of the most recent stack test accepted by the Department. The emission factor shall be calculated using the average result of the most recent stack test accepted by the Department. The emission factor shall be stated in units of lbs of NOx per ton of coal. The conversion factor for subbituminous coal shall be based on a high heat value provided by the coal supplier or on a standard high heat value of 17.25 mmBtu/ton.
6. At the end of each month, determine the NOx emissions from this unit through the following means:
    a. Calculate the NOx emissions from the combustion of solid fuels over the previous month by multiplying the emissions factor developed in condition 5 above by the quantity of fuel consumed during the previous month as recorded in condition 1 above.
7. At the end of each month, calculate the total combined amount of NOx emissions over the previous month by adding together the monthly emissions from EU 66, EU67, EU34, and EU35.
8. At the end of each month, calculate the combined amount of NOx emissions over the previous twelve (12) months by adding together the last twelve (12) monthly totals calculated in condition 7 above.
9. During any period which the two coal fired boilers (EU 34 and EU35) are operating concurrently with natural gas boiler #2 (EU 67), the heat input to the coal boilers shall not exceed 233 million British Thermal Units (mmBTU) per hour.
10. For any time that the two coal fired boilers (EU 34 and EU 35) and natural gas boiler #2 (EU 67) are noted as operating simultaneously in condition 3 above, the owner or operator shall record the total mass of each fuel consumed in the two coal fired boilers (EU 34 and EU 35) during each hour that the three boilers are operating.
11. If during any time that the two coal fired boilers (EU 34 and EU 35) and natural gas boiler #2 (EU 67) are all operating simultaneously and solid fuels other than coal are combusted (either by themselves or blended with coal) the owner or operator shall collect a representative sample of the fuel other than coal that is being combusted in the two coal fired boilers (EU 34 and EU 35).
12. A proximate analysis of each sample collected as required to be sampled under condition 11

above shall be performed.

13. The owner or operator shall calculate the hourly heat input for each hour that the two coal fired boilers (EU 34 and EU 35) and natural gas boiler #2 (EU 67) are all operating simultaneously.
    a. For coal, the heat input shall be calculated by multiplying the hourly fuel feed rate recorded in condition 10 above by an average heat content of 17.25 mmBTU per short ton of coal.
    b. For any fuel other than coal, the heat input shall be calculated by multiplying the hourly fuel feed rate recorded in condition 10 and the heat content obtained from the proximate analysis required in 12 above.

Authority for Requirement: DNR Construction Permit 81-A-118-P2

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 link to rule text.

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): 200
Stack Opening, (inches, dia.): 107
Exhaust Flow Rate (scfm): 74,000
Exhaust Temperature (°F): 400
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 81-A-118-P2

*The coal boilers EU 34 and EU 35 are both physically vented through a common stack with the above listed characteristics when both are operating. Separate emission point IDs are maintained in these permits for historical purposes only.

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

Monitoring Requirements

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

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

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

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

(Required for Particulate Matter emissions)

Agency O&M plan included in Appendix B meets CAM requirements. No additional CAM plan is required.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 37

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 37	Bulk Coal Conveying	CE 37: Baghouse	Coal	100 tons/hr.	88-A-029

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 Limits: 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr./scf
Authority for Requirement: DNR Construction Permit 88-A-029
567 IAC 23.3(2)"a"

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 38

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 38	Bulk Ask Conveying	CE 38: Baghouse	Ash	0.81 tons/hr.	81-A-146

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 Limits: 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limits: 3.56 lb./hr[(1)]
[(1)] Based on a process weight rate of 0.81tons/hr from Table 1
Authority for Requirement: DNR Construction Permit 81-A-146
567 IAC 23.3(2)"a"

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 39

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 39	Pellet Cooling Aspiration	CE 39: Cyclone	Soybean Pellets	160.34 tons/hr.	93-A-154-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 93-A-154-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: PM_{10}
Emission Limits: 2.94 lb/hr.
Authority for Requirement: DNR Construction Permit 93-A-154-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 4.20 lb/hr., 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 93-A-154-S1
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Hours of operation:

1. Operation of this source shall not exceed 8,400 operating per year.

Reporting & Record keeping:

1. The permittee shall maintain the following monthly records:
    a. The number of hours that the emissions unit operated; and
    b. The rolling 12-month total of the amount of hours that the emissions unit operated.

Authority for Requirement: DNR Construction Permit 93-A-154-S1

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

Stack Height, (ft, from the ground): 30
Stack Opening, (inches, dia.): 22
Exhaust Flow Rate (scfm): 7,000
Exhaust Temperature (°F): 136
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 93-A-154-S1

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

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

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

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☒ **No** ☐
(Required for Particulate Matter and PM_{10} emissions)

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 40 and EP 41

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EP 40	EU 40	Soybean Dryer #1	Soybeans Natural Gas	126 tons/hr. 0.03 MMcf/hr.	81-A-103-S1
EP 41	EU41	Soybean Dryer #2	Soybeans Natural Gas	126 tons/hr. 0.03 MMcf/hr.	81-A-104-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 Limits: 0%
Authority for Requirement: DNR Construction Permits 81-A-103-S1 & 81-A-104-S1
40 CFR 60.302(a)(1)
567 IAC 23.1(2)"ooo"

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr./dscf, 6.0 lb/hr
Authority for Requirement: DNR Construction Permits 81-A-103-S1 & 81-A-104-S1
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Reporting & Record keeping:

1. The general notification and reporting requirements of 40 CFR 60.19.

Authority for Requirement: DNR Construction Permits 81-A-103-S1 & 81-A-104-S1
40 CFR 60.19
567 IAC 23.1(2)

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

Emission Point	Stack Height (ft)	Stack Opening (ft^2)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
EP 40	61	1,290	130,000	150	NA	81-A-103-S1
EP 41	61	1,290	130,000	150	NA	81-A-104-S1

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

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

Opacity Monitoring:
The facility shall check for visible emissions weekly during a period when the emission unit on this emission point is in operation and record the observation. If weather conditions prevent the observer from conducting a visible emissions 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.

Observations shall be done to ensure that no visible emissions occur during the 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 greater than 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

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	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 44	Hull Pellet Storage (15 Bins)	CE 44: Baghouse	Soybean Pellets	20 tons/hr.	07-A-1349-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 07-A-1349-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: PM_{10}
Emission Limits: 0.17 lb/hr.
Authority for Requirement: DNR Construction Permit 07-A-1349-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 07-A-1349-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): 99
Stack Opening, (inches): 12 x 12
Exhaust Flow Rate (scfm): 1,000
Exhaust Temperature (°F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 07-A-1349-S1

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 45

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 45	North Truck Loadout (30 Bins)	CE 45: Baghouse	Soybean Meal	200 tons/hr.	07-A-1350-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 07-A-1350-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: PM_{10}
Emission Limits: 0.09 lb/hr.
Authority for Requirement: DNR Construction Permit 07-A-1350-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 07-A-1350-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): 92
Stack Opening, (inches, dia.): 7
Exhaust Flow Rate (scfm): 500
Exhaust Temperature (°F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 07-A-1350-S1

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 46

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 46	Bulk Loading (14 Bins)	CE 46: Baghouse	Soybean Meal	153.75 tons/hr.	07-A-1351-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 Limits: 40%(1)
Authority for Requirement: DNR Construction Permit 07-A-1351-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: PM_{10}
Emission Limits: 0.09 lb/hr.
Authority for Requirement: DNR Construction Permit 07-A-1351-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 07-A-1351-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): 86
Stack Opening, (inches, dia.): 7
Exhaust Flow Rate (scfm): 500
Exhaust Temperature (°F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 07-A-1351-S1

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 48

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 48	Hull Bins for South Truck Loadout (8 Bins)	CE 48: Baghouse	Soybean Hulls	15 tons/hr.	07-A-1352-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 07-A-1352-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: PM_{10}
Emission Limits: 0.17 lb/hr.
Authority for Requirement: DNR Construction Permit 07-A-1352-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 07-A-1352-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): 88
Stack Opening, (inches): 12 x 12
Exhaust Flow Rate (scfm): 1,000
Exhaust Temperature (°F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 07-A-1352-S1

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 50

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 50	South Truck Bulk Loading	CE 50: Baghouse	Soybean Meal & Hulls	200 tons/hr.	93-A-414-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 93-A-414-S1
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: PM_{10}
Emission Limits: 0.7617 lb./hr
Authority for Requirement: DNR Construction Permit 93-A-414-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 1.29 lb./hr, 0.1 gr./dscf
Authority for Requirement: DNR Construction Permit 93-A-414-S1
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

The operating requirements and associated recordkeeping for this permit shall be:

1. The owner or operator shall operate the control equipment according to the manufacturer's specifications and recommendations.
2. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications and recommendations.
3. The owner or operator shall maintain a record of control equipment inspections and maintenance performed.

Authority for Requirement: DNR Construction Permit 93-A-414-S1

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

Stack Height, (ft, from the ground): 10
Stack Opening, (inches, dia.): 29 x 34
Exhaust Flow Rate (scfm): 30,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 93-A-414-S1

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 51, EP 52, EP 53

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EP 51	EU 51*****	South Bean Conditioner	Soybean Cracks	51.25 tons/hr	07-A-058
EP 52	EU 52*****	Middle Bean Conditioner	Soybean Cracks	51.25 tons/hr	07-A-059
EP 53	EU 53*****	North Bean Conditioner	Soybean Cracks	51.25 tons/hr	07-A-060

***** In accordance with 40 CFR §52.21(b)(33)(iv), the South Bean Conditioner (EU 51), Middle Bean Conditioner (EU52), and North Bean Conditioner (EU 53) shall be permanently removed from the source, otherwise permanently disabled, or permanently barred from operation within 180 days of start of operation of the Rotary Conditioner (EU 74). See EP 74 for further detail

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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 Limits: 40%(1)
Authority for Requirement: DNR Construction Permits 07-A-058, 07-A-059, 07-A-060
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: PM_{10}
Emission Limits: 0.47 lb/hr.
Authority for Requirement: DNR Construction Permits 07-A-058, 07-A-059, 07-A-060

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permits 07-A-058, 07-A-059, 07-A-060
567 IAC 23.4(7)

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

Stack Height, (ft, from the ground): 55
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): 550*
Exhaust Temperature (°F): 120
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 07-A-058, 07-A-059, 07-A-060
* Flow rate can vary from 0 to 600 acfm.

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 55

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 55	Soy Oil Extraction Process	Soybeans/ Solvent	153.75 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: Volatile Organic Compounds (VOC's)
Emission Limits: 0.07 gallons VOC/ton of soybeans processed (mineral oil scrubber)
Authority for Requirement: U.S. EPA PSD Permit - issued August 28, 1981 and amended October 25, 1991

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Reporting & Recordkeeping:

1. The owner/operator shall maintain the following records;
   a) The total amount of hexane used, in gallons for each month.
   b) The total amount of hexane used, in gallons per each 12 month period rolled monthly.
   c) The total amount of soybeans processed, in tons for each month.
   d) The total amount of soybeans processed, in tons per 12 month period rolled monthly.
   e) Calculate and record the monthly and rolled 12 month totals of gallons of hexane lost per ton of beans processed.

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

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)"b"

Emission Point ID Number: EP 56

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 56	Refinery Clay Handling	CE 56: Baghouse	Clay/ Diatomaceous Earth	20 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 Limits: 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limits: 0.525 lb./hr[(1)]
Authority for Requirement: 567 IAC 23.3(2)"a"
[(1)] Based on process weight rate for 20 tons/hr.

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 57

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 57	Oil Refinery	Vegetable Oil	40 tons/hr.	17-A-079

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): 39.42 tons/yr.
Authority for Requirement: DNR Construction Permit 17-A-079

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The quantity of vegetable oil refined shall not exceed 394,200 tons per rolling 12-month period. Each month, the owner or operator shall:
    a. Record the amount of vegetable oil refined, in tons; and
    b. Calculate and record the rolling 12-month total amount of vegetable oil refined, in tons.
2. The rolling 12-month weighted average VOC content of unrefined vegetable oil received from other facilities shall not exceed 100 ppm. The owner or operator shall:
    a. Sample, analyze, and record the VOC content, in ppm, of each batch of vegetable oil received from other facilities;
    b. Record the total amount of unrefined vegetable oil received in each batch;
    c. On a monthly basis, calculate and record the rolling 12-month weighted average VOC content of the unrefined vegetable oil received from other facilities, in ppm.

Authority for Requirement: DNR Construction Permit 17-A-079

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)"b"

Emission Point ID Number: EP 58

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 58	Geka Boiler	Natural Gas	14.4 MMBtu/hr.	01-A-638-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 01-A-638-S5
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.6 lb./MMBtu
Authority for Requirement: DNR Construction Permit 01-A-638-S5
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 500 ppmv
Authority for Requirement: DNR Construction Permit 01-A-638-S5
567 IAC 23.3(3)"e"

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 only combust natural gas in the Geka Boiler (EU 58). On a monthly basis, the owner or operator shall record and maintain records of the amount and type of fuel combusted in the Geka Boiler (EU 58), as specified in 40 CFR §60.48c(g)(2).
2. The sulfur content of the natural gas shall not exceed 0.05%, by weight. The owner or operator shall maintain records of the sulfur content of the natural gas.

Authority for Requirement: DNR Construction Permit 01-A-638-S5
40 CFR 60.48c(g) - Subpart Dc
567 IAC 23.1(2)"lll"

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 a link to rule text.
Authority for Requirement: 40 CFR 63 Subpart DDDDD

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

Stack Height (feet from the ground): 45
Stack Opening (inches, diameter): 23.6
Exhaust Flow Rate (scfm): 3,056
Exhaust Temperature (^{o}F): 640
Discharge Style: Vertical Obstructed
Authority for Requirement: DNR Construction Permit 01-A-638-S5

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

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

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

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

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

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 59	Hull Receiving	CE 59: Baghouse	Soybean Hulls	12 tons/hr.	07-A-061

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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 07-A-061
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: PM_{10}
Emission Limits: 0.15 lb/hr.
Authority for Requirement: DNR Construction Permit 07-A-061

Pollutant: Particulate Matter (PM)
Emission Limits: 0.15 lb/hr., 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 07-A-061
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Control equipment parameters:

1. The permittee shall operate and maintain the fabric filter baghouse in accordance with the recommendations of the manufacturer.

Reporting & Record keeping:

1. The permittee shall maintain records on the maintenance performed on the fabric filter baghouse.

Authority for Requirement: DNR Construction Permit 07-A-061

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

Stack Height, (ft, from the ground): 90
Stack Opening, (inches, dia.): 7
Exhaust Flow Rate (scfm): 900
Exhaust Temperature (°F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 07-A-061

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

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 62

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 62	Pod Grinder	CE 62: Baghouse	Soybean Hulls	0.15 tons/hr.	06-A-615-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 06-A-615-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: PM_{10}
Emission Limits: 0.12 lb/hr.
Authority for Requirement: DNR Construction Permit 06-A-615-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.12 lb/hr., 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-615-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): 65
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): 1,355
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-615-S1

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 63

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 63	Hull Storage (6 Bins)	CE 63: Baghouse	Soybean Hulls	120 tons/hr.	07-A-1353-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 07-A-1353-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: PM_{10}
Emission Limits: 0.17 lb/hr.
Authority for Requirement: DNR Construction Permit 07-A-1353-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 07-A-1353-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): 89
Stack Opening, (inches): 12 x 12
Exhaust Flow Rate (scfm): 1,000
Exhaust Temperature (°F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 07-A-1353-S1

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 64

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 64	Meal Storage Bins - South Truck Loadout	CE 64: Baghouse	Soybean Meal	120 tons/hr.	07-A-1354-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 Limits: 40%(1)
Authority for Requirement: DNR Construction Permit 07-A-1354-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: PM_{10}
Emission Limits: 0.09 lb/hr.
Authority for Requirement: DNR Construction Permit 07-A-1354-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 07-A-1354-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): 88
Stack Opening, (inches, dia.): 7
Exhaust Flow Rate (scfm): 500
Exhaust Temperature (°F): Ambient
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 07-A-1354-S1

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 65

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 65	Rail Meal Loadout	CE 65: Baghouse	Soybean Meal	200 tons/hr.	11-A-686

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-686
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: $PM_{2.5}$
Emission Limit(s): 1.37 lb/hr.
Authority for Requirement: DNR Construction Permit 11-A-686

Pollutant: PM_{10}
Emission Limit(s): 2.74 lb/hr.
Authority for Requirement: DNR Construction Permit 11-A-686

Pollutant: Particulate Matter (PM)
Emission Limit(s): 2.74 lb/hr., 0.1 gr./dscf
Authority for Requirement: DNR Construction Permit 11-A-686
567 IAC 23.4(7)

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

Stack Height, (ft, from the ground): 30
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 32,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 11-A-686

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

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
(Required for $PM_{2.5}$, PM_{10}, and Particulate Matter emissions for CE 65)
Equivalent Agency O&M plans have been included in Appendix B.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 66

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 66	Natural Gas Boiler #1	NA	Natural Gas/ Fuel Oil	72 MMBtu	18-A-143-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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 18-A-143-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: Particulate Matter (PM)
Emission Limits: 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 18-A-143-S2
567 IAC 23.3(2)"b"

Natural Gas Emission Limits
Pollutant: $PM_{2.5}$
Emission Limits: 0.42 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-143-S2

Pollutant: PM_{10}
Emission Limits: 0.53 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-143-S2

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 500ppm_v
Authority for Requirement: DNR Construction Permit 18-A-143-S2
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limits: 3.60 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-143-S2

Pollutant: Carbon Monoxide (CO)
Emission Limits: 3.6 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-143-S2

Fuel Oil Emission Limits
Pollutant: $PM_{2.5}$
Emission Limits: 1.44 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-143-S2

Pollutant: PM_{10}
Emission Limits: 1.65 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-143-S2

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 2.5 lb/MMBtu.
Authority for Requirement: DNR Construction Permit 18-A-143-S2
567 IAC 23.3(3)"b"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limits: 8.63 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-143-S2

Pollutant: Carbon Monoxide (CO)
Emission Limits: 2.5 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-143-S2

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

The operating requirements and associated recordkeeping for this permit shall be:

1. This unit shall combust natural gas or fuel oil only.
2. The fuel oil consumption in the two natural gas boilers (EU 66 and EU 67) shall not exceed 2,330,000 gallons per twelve (12) month period, rolled monthly.
3. As required by 40 CFR 60.48c(g)(1), the owner or operator shall record and maintain records of the amount of each fuel combusted in this unit each day.
4. As allowed by 40 CFR 60.48c(g)(2), the owner or operator may elect to record and maintain records of the amount of each fuel combusted in this unit each month in lieu of the daily record keeping required by 40 CFR 60.48(c)(g)(1).
5. At the end of each month, record the amount of fuel oil consumed in this unit over the previous twelve (12) months.
6. At the end of each month, record the amount of fuel oil consumed in both natural gas boilers (EU 66 and EU 67) over the previous twelve (12) months.
7. The sulfur content of any fuel oil burned in the natural gas boilers (EU 66 and EU 67) shall not exceed 15 ppmv.
8. Maintain a documentation for each fuel oil deliver received showing the type of fuel and the

sulfur content of the fuel received.

9. No more than two boilers located at this facility may be operated simultaneously except during periods of startup and shutdown.
10. For each period of startup and shutdown of one of the boilers located at this facility, log the unit identification as well as the date and time of the beginning and the end of the startup and/or shutdown.
11. The two natural gas boilers (EU 66 and EU 67) and the two coal fired boilers (EU 34 and EU 35) located at this facility are limited to a combined total of 126.12 tons of NOx per twelve (12) month period, rolled monthly.

Record keeping items listed in conditions 12 through 17 below are only to demonstrate compliance with the annual emission rate (ton per twelve (12) month rolling period) limit listed in condition 11 above.

12. During the time between initial startup of this unit and the initial compliance testing, NOx emissions from this unit shall be calculated at the end of each month by multiplying the amount of fuel consumed during that month by the appropriate emission factor listed below:
    a. For natural gas an emission factor of 50 pounds per million cubic feet of natural gas shall be used.
    b. For fuel oil an emission factor of 20 pounds per thousand gallons shall be used.
13. Develop an emission factor for NOx emissions in pounds per cubic foot of natural gas from the results of the most recent stack test accepted by the Department. The emission factor shall be calculated using the average result of the most recent stack test accepted by the Department. The emission factor shall be stated in units of lbs of NOx per cubic foot of natural gas. The conversion factor for natural gas shall be based on a high heat value of 1027 Btu/cubic foot.
14. Develop an emissions factor for NOx emissions in pounds per gallon of fuel oil from the results of the most recent stack test accepted by the Department. The emission factor shall be calculated using the average result of the most recent stack test accepted by the Department. The emission factor shall be stated in units of lbs of NOx per gallon of #2 fuel oil burned. The conversion factor for #2 fuel oil shall be based on a high heat value provided by the fuel supplier or on a standard high heat value of 0.138 MMBtu/gallon.
15. At the end of each month, determine the NOx emissions from this unit through the following means:
    a. Calculate the NOx emissions from the combustion of natural gas over the previous month by multiplying the emissions factor developed in condition 13 above by the quantity of natural gas consumed during the previous month as recorded in either condition 3 or 4 above.
    b. Calculate the NOx emissions from the combustion of fuel oil over the previous month by multiplying the emissions factor developed in condition 13 above by the quantity of fuel oil consumed during the previous month as recorded in either condition 3 or 4 above.
16. At the end of each month, calculate the total combined amount of NOx emissions over the previous month by adding together the monthly emissions from EU 66, EU67, EU34, and EU35.

17. At the end of each month, calculate the combined amount of NOx emissions over the previous twelve (12) months by adding together the last twelve (12) monthly totals calculated in condition 15 above.

Authority for Requirement: DNR Construction Permit 18-A-143-S2
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"lll"

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 link to rule text.

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): 50
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 15,000
Exhaust Temperature (°F): 300
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 18-A-143-S2

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

Monitoring Requirements

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

Stack Testing:

Pollutant - $PM_{2.5}$ (1)(2)
Stack Test to be Completed by (date) – See Footnote Below
Test Method - 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement – 18-A-143-S2

Pollutant - NO_x (1)(3)
Stack Test to be Completed by (date) - See Footnote Below
Test Method - 40 CFR 60, Appendix A, Method 7E
Authority for Requirement – 18-A-143-S2

Pollutant - CO (1)(2)
Stack Test to be Completed by (date) – See Footnote Below
Test Method - 40 CFR 60, Appendix A, Method 10
Authority for Requirement – 18-A-143-S2

[1] Testing shall be completed to demonstrate compliance with emissions standards on fuel oil. Natural gas tested 7/3/19.
[2] Testing for PM2.5 and CO when burning fuel oil may be delayed until such time as this unit burns more than 438,000 gallons of fuel oil in any twelve (12) month period.
[3] Testing for NOx when burning fuel oil may be delayed until such time as this unit burns fuel oil for 48 hours in any twelve (12) month period excluding periods of gas supply interruption or burns 438,000 gallons of fuel oil in any twelve (12) month period, whichever comes first.

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 67

Associated Equipment

Emission Unit	Emission Unit Description	Monitoring Equipment	Raw Material	Rated Capacity	Construction Permit
EU 67	Natural Gas Boiler #2	ME 67: CEMs	Natural Gas Fuel Oil	200 MMBtu	18-A-144-S3

Applicable Requirements

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 18-A-144-S3
567 IAC 23.3(2)"b"

Natural Gas Emission Limits
Pollutant: Opacity
Emission Limits: 40%
Authority for Requirement: DNR Construction Permit 18-A-144-S3
567 IAC 23.3(2)"d"

Pollutant: $PM_{2.5}$
Emission Limits: 1.22 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-144-S3

Pollutant: PM_{10}
Emission Limits: 1.56 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-144-S3

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 500 ppm_v
Authority for Requirement: DNR Construction Permit 18-A-144-S3
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limits: 10.5 lb/hr., 0.2 lb/MMBtu
Authority for Requirement: DNR Construction Permit 18-A-144-S3
567 IAC 23.1(2)"ccc"

Pollutant: Carbon Monoxide (CO)
Emission Limits: 10.50 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-144-S3

Fuel Oil Emission Limits
Pollutant: Opacity
Emission Limits: 20%[(1)]
Authority for Requirement: DNR Construction Permit 18-A-144-S3
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: $PM_{2.5}$
Emission Limits: 4.2 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-144-S3

Pollutant: PM_{10}
Emission Limits: 4.81 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-144-S3

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 2.5 lb/MMBtu
Authority for Requirement: DNR Construction Permit 18-A-144-S3
567 IAC 23.3(3)"b"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limits: 24.12 lb/hr., 0.2 lb/MMBtu
Authority for Requirement: DNR Construction Permit 18-A-144-S3
567 IAC 23.1(2)"ccc"

Pollutant: Carbon Monoxide (CO)
Emission Limits: 7.28 lb/hr.
Authority for Requirement: DNR Construction Permit 18-A-144-S3

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

The operating requirements and associated recordkeeping for this permit shall be:

1. This unit shall combust natural gas or fuel oil only.
2. The fuel oil consumption in the two natural gas boilers (EU 66 and EU 67) shall not exceed 2,330,000 gallons per twelve (12) month period, rolled monthly.
3. At the end of each month, record the amount of each type of fuel consumed in this unit over the previous month.
4. At the end of each month, record the amount of fuel oil consumed in this unit over the previous twelve (12) months.
5. At the end of each month, record the amount of fuel oil consumed in both natural gas boilers (EU 66 and EU 67) over the previous twelve (12) months.
6. The sulfur content of any fuel oil burned in the natural gas boilers (EU 66 and EU 67) shall

not exceed 15 ppmv.

7. Maintain a documentation for each fuel oil delivery received showing the type of fuel and the sulfur content of the fuel received.
8. No more than two boilers located at this facility may be operated simultaneously except during periods of startup and shutdown.
9. For each period of startup and shutdown of one of the boilers located at this facility, log the unit identification as well as the date and time of the beginning and the end of the startup and/or shutdown.
10. The two natural gas boilers (EU 66 and EU 67) and the two coal fired boilers (EU 34 and EU 35) located at this facility are limited to a combined total of 126.12 tons of NOx per twelve (12) month period, rolled monthly.

Record keeping items listed in condition 11 through 14 below are only to demonstrate compliance with the annual emission rate (ton per twelve (12) month rolling period) limit listed in condition 10 above.

11. During the time between initial startup of this unit and the initial compliance testing, NOx emissions from this unit shall be calculated at the end of each month by multiplying the amount of fuel consumed during that month by the appropriate emission factor listed below:
    a. For natural gas an emission factor of 140 pounds per million cubic feet of natural gas shall be used.
    b. For fuel oil an emission factor of 10 pounds per thousand gallons shall be used.
12. Develop an emission factor for NOx emissions in pounds per cubic foot of natural gas from the results of the most recent stack test accepted by the Department. The emission factor shall be calculated using the average result of the most recent stack test accepted by the Department. The emission factor shall be stated in units of lbs of NOx per cubic foot of natural gas. The conversion factor for natural gas shall be based on a high heat value of 1027 Btu/cubic foot.
13. Develop an emissions factor for NOx emissions in pounds per gallon of fuel oil from the results of the most recent stack test accepted by the Department. The emission factor shall be calculated using the average result of the most recent stack test accepted by the Department. The emission factor shall be stated in units of lbs of NOx per gallon of #2 fuel oil burned. The conversion factor for #2 fuel oil shall be based on a high heat value provided by the fuel supplier or on a standard high heat value of 0.138 MMBtu/gallon.
14. At the end of each month, determine the NOx emissions from this unit through the following means:
    a. Calculate the NOx emissions from the combustion of natural gas over the previous month by multiplying the emissions factor developed in condition 12 above by the quantity of natural gas consumed during the previous month as recorded in either condition 3 or 4 above.
    b. Calculate the NOx emissions from the combustion of fuel oil over the previous month by multiplying the emissions factor developed in condition 13 above by the quantity of fuel oil consumed during the previous month as recorded in either condition 3 or 4 above.
15. At the end of each month, calculate the total combined amount of NOx emissions over the previous month by adding together the monthly emissions from EU 66, EU67, EU34, and EU35.

16. At the end of each month, calculate the combined amount of NOx emissions over the previous twelve (12) months by adding together the last twelve (12) monthly totals calculated in condition 14 above.

Authority for Requirement: DNR Construction Permit 18-A-144-S3

NSPS

This emission unit is subject to 40 CFR 60 Subpart Db – New Sources Performance Standard (NSPS) for Industrial-Commercial-Institutional Steam Generating Units. See Appendix A for link to rule text.

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

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 link to rule text.

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.): 60 x 56
Exhaust Flow Rate (scfm): 59,000
Exhaust Temperature (°F): 300
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 18-A-144-S3

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

Monitoring Requirements

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

Stack Testing:

Pollutant - $PM_{2.5}$[(1)(2)]
Stack Test to be Completed by (date) - See Footnote Below
Test Method - 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement – 18-A-144-S3

Pollutant – PM_{10}[(1)(2)]
Stack Test to be Completed by (date) - See Footnote Below
Test Method - 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement – 18-A-144-S3

Pollutant – Opacity[(3)]
Stack Test to be Completed by (date) - See Footnote Below
Test Method - 40 CFR 60, Appendix A, Method 9
Authority for Requirement – 18-A-144-S3

Pollutant - NO_x [(4)]
Stack Test to be Completed by (date) – See Footnote Below
Test Method - 40 CFR 60, Appendix A, Method 7E
Authority for Requirement – 18-A-144-S3

Pollutant - CO [(1)(2)]
Stack Test to be Completed by (date) – See Footnote Below
Test Method - 40 CFR 60, Appendix A, Method 10
Authority for Requirement – 18-A-144-S3

[1] Testing shall be completed to demonstrate compliance with emissions standards on fuel oil.
[2] Testing for PM10, PM2.5 and CO when burning fuel oil may be delayed until such time as this unit burns more than 438,000 gallons of fuel oil in any twelve (12) month period.
[3] Opacity testing as required by the NSPS when the facility is burning fuel oil.
[4] Testing shall be conducted on fuel oil. Testing when burning fuel oil may be delayed until such time as this unit burns more than 438,000 gallons of fuel oil in any twelve (12) month period.

Continuous Emissions Monitoring:

Pollutant - NO_x[(1)]
Operational Specifications, Reporting, and Record Keeping:

1. In accordance with 40 CFR §60.48b, the owner or operator shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) and record the output of the system, for measuring nitrogen oxide (NO_x) emissions, except as provided by 40 CFR §60.48b.
2. The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) requirements. The specifications of 40 CFR Appendix F (Quality Assurance/Quality Control) shall apply.
3. This monitor shall also be used to determine the mass emissions from this unit to be included with emissions from other boilers to demonstrate compliance with the annual emissions limit from all boilers at the facility.

Date of Most Recent System Calibration and Quality Assurance – 4/5/2022
Authority for Requirement – DNR Construction Permit 18-A-144-S3

Pollutant – O_2 or CO_2[(1)]
Operational Specifications, Reporting and Record keeping:

1. In accordance with 40 CFR §60.48b, the owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the oxygen (O_2) or carbon dioxide (CO_2) content of the flue gases at each location where NO_x emissions are monitored.

Date of Most Recent System Calibration and Quality Assurance – 4/5/2022
Authority for Requirement – DNR Construction Permit 18-A-144-S3

[(1)]The CEMS requirements above for NO_x and either O_2 or CO_2 shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.

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)
O_2 or CO_2:

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 68 & EP 69

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 68	North Truck Meal Loadout Equipment Aspiration #1	CE-68: Baghouse	Soybean Meal	250 tons/hr.	19-A-162-S1
EU 69	North Truck Meal Loadout Equipment Aspiration #2	CE-69: Baghouse	Soybean Meal	250 tons/hr.	19-A-163-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 Limits: 40%(1)
Authority for Requirement: DNR Construction Permit 19-A-162-S1, 19-A-163-S1
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: $PM_{2.5}$
Emission Limits: 0.86 lb/hr.
Authority for Requirement: DNR Construction Permit 19-A-162-S1, 19-A-163-S1

Pollutant: PM_{10}
Emission Limits: 0.86 lb/hr.
Authority for Requirement: DNR Construction Permit 19-A-162-S1, 19-A-163-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.86 lb/hr., 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 19-A-162-S1, 19-A-163-S1
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

The operating requirements and associated recordkeeping for this permit shall be:

1. The owner or operator shall operate, inspect and maintain all the equipment associated with the process and the Baghouses (CE-68, CE-69) in accordance with manufacturer's specifications and maintenance schedule.

a. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Baghouses (CE-68 & CE-69).

Authority for Requirement: DNR Construction Permit 19-A-162-S1, 19-A-163-S1

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 98
Stack Opening, (inches, dia.): 40
Exhaust Flow Rate (scfm): 33,400
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 19-A-162-S1, 19-A-163-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 70 & EP 71

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 70	Meal Storage Bin	CE 70: Baghouse	Soybean Meal	2,100 tons	19-A-164
EU 71	Meal Storage Bin	CE 71: Baghouse	Soybean Meal	2,100 tons	19-A-165

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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 19-A-194, 19-A-165
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: $PM_{2.5}$
Emission Limits: 0.10 lb/hr.
Authority for Requirement: DNR Construction Permit 19-A-194, 19-A-165

Pollutant: PM_{10}
Emission Limits: 0.26 lb/hr.
Authority for Requirement: DNR Construction Permit 19-A-194, 19-A-165

Pollutant: Particulate Matter (PM)
Emission Limits: 0.26 lb/hr., 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 19-A-194, 19-A-165
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

The operating requirements and associated recordkeeping for this permit shall be:

1. The owner or operator shall operate, inspect and maintain all the equipment associated with the process and the Baghouses (CE-70, CE-71) in accordance with manufacturer's specifications and maintenance schedule.

a. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Baghouses (CE-70, CE-71).

Authority for Requirement: DNR Construction Permit 07-A-061

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 92
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 3,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 19-A-194, 19-A-165

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 72

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 72.1	Meal Conveyance/Scalping Equipment #1	CE 72: Baghouse	Soybean Meal	250 tons/hr	19-A-166-S1
EU 72.2	Meal Conveyance/Scalping Equipment #2			250 tons/hr	

Applicable Requirements

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

Pollutant: Opacity
Emission Limits: 40%(1)
Authority for Requirement: DNR Construction Permit 19-A-166-S1
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: $PM_{2.5}$
Emission Limits: 0.21 lb/hr.
Authority for Requirement: DNR Construction Permit 19-A-166-S1

Pollutant: PM_{10}
Emission Limits: 0.57 lb/hr.
Authority for Requirement: DNR Construction Permit 19-A-166-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.57 lb/hr., 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 19-A-166-S1
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

The operating requirements and associated recordkeeping for this permit shall be:

1. The owner or operator shall operate, inspect and maintain all the equipment associated with the process and the Baghouse (CE-72) in accordance with manufacturer's specifications and maintenance schedule.

a. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Baghouse (CE-72).

Authority for Requirement: DNR Construction Permit 19-A-166-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 99
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 11,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 19-A-166-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 73

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 73	Cooling Tower	CE-73: Mist Eliminator	Water	12,400 gal/min	22-A-056

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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 22-A-056
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.20 lb/hr., 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 22-A-056
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

The operating requirements and associated recordkeeping for this permit shall be:

1. The maximum total dissolved solids (TDS) content shall be 8,000 ppmw.
2. The owner or operator shall conduct quarterly total dissolved solids (TDS) sampling of the cooling tower recirculation water to demonstrate proper operation.
3. The owner or operator shall keep records of the results of the quarterly TDS sampling.
4. Water treatment chemicals used in this emission unit shall contain no HAPs or VOCs.
5. The owner or operator shall keep Safety Data Sheets (SDS) of all water treatment chemicals used in this emission unit.
6. The owner or operator shall keep records documenting the control equipment (CE-73) efficiency.

Authority for Requirement: DNR Construction Permit 22-A-056

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

Stack Height, (ft, from the ground): 19
Stack Opening, (inches, dia.): 114 x 375
Exhaust Flow Rate (scfm): 864,320 (total)
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 22-A-056

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 74

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 74	Rotary Conditioner	NA	Cracked Soybeans	162.5 tons/hr.	22-A-083

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 Limits: 40%[(1)]
Authority for Requirement: DNR Construction Permit 22-A-083
567 IAC 23.3(2)"d"

[(1)] An exceedance of the indicator opacity of (20%) 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: $PM_{2.5}$
Emission Limits: 0.28 lb/hr.
Authority for Requirement: DNR Construction Permit 22-A-083

Pollutant: PM_{10}
Emission Limits: 0.75 lb/hr.
Authority for Requirement: DNR Construction Permit 22-A-083

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 22-A-083
567 IAC 23.4(7)

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

The operating requirements and associated recordkeeping for this permit shall be:

1. In accordance with 40 CFR §52.21(b)(33)(iv), the South Bean Conditioner (EU 51), Middle Bean Conditioner (EU 52), and North Bean Conditioner (EU 53) shall be permanently removed from the source, otherwise permanently disabled, or permanently barred from operation within 180 days of start of operation of the Rotary Conditioner (EU 74). The owner or operator shall maintain the following records:

a. The date the Rotary Conditioner (EU 74) commences operation.
b. The date the South Bean Conditioner (EU 51), Middle Bean Conditioner (EU 52), and North Bean Conditioner (EU 53) is permanently removed from the source, otherwise permanently disabled, or permanently barred from operation.

Authority for Requirement: DNR Construction Permit 22-A-083

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 55
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 1,419
Exhaust Temperature (°F): 180
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 22-A-083

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP FP1

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU FP1	Emergency Fire Pump	Diesel Fuel	175 bhp	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 (PM)
Emission Limit(s): 0.1 gr/scf
Authority for Requirement: 567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Record keeping:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

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. The 50 hours per year for non-emergency situations cannot be used for peak shaving, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

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)

IV. General Conditions

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

G1. Duty to Comply

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

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

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

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

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

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

G2. Permit Expiration

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

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

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

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

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

G10. Recordkeeping Requirements for Compliance Monitoring

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

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

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

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

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
   a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
   b. Compliance test methods specified in 567 Chapter 25; or
   c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
   a. Any monitoring or testing methods provided in these rules; or
   b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the

cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

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

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

ii. The estimated quantity of the excess emission.

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

iv. The cause of the excess emission.

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

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

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

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

ii. The estimated quantity of the excess emission.

iii. The time and duration of the excess emission.

iv. The cause of the excess emission.

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

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

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

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore

normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

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

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

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

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

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

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

c. The changes are not modifications under any provisions of Title I of the Act and the

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

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

e. The changes comply with all applicable requirements.

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

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

ii. The date on which the change will occur,

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

iv. The pollutants emitted subject to the emissions trade

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

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

vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 22.110(1)*

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

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

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

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

i. Correct typographical errors

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

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

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility,

coverage and liability between the current and new permittee has been submitted to the director.

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

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

2. Minor Title V Permit Modification.

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

i. Do not violate any applicable requirement;

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

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

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

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

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

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

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

ii. The permittee's suggested draft permit;

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

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

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

3. Significant Title V Permit Modification.
Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.
The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.111-567 IAC 22.113*

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

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

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

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

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements
1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

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

b. The placement of the required warning statement must comply with the requirements

pursuant to § 82.108.

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

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

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

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

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

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

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

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

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

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the

requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

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

a. Such applicable requirements are included and are specifically identified in the permit; or

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

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

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

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

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

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

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-9545

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:

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

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

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

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

Field Office 1
1101 Commercial Court, Suite 10
Manchester, IA 52057
(563) 927-2640

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

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

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

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

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

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

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

V. Appendix A: NSPS and NESHAP Links

NSPS
40 CFR 60 Subpart DD
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-DD

40 CFR 60 Subpart Db
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Db

40 CFR 60 Subpart Dc
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Dc

NESHAP
40 CFR 63 Subpart GGGG
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-GGGG

40 CFR 63 Subpart ZZZZ
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ

40 CFR 63 Subpart DDDDD
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-DDDDD

Appendix B: Baghouse Agency O&M Plans

AGP Eagle Grove, Iowa

Baghouse Agency Operation & Maintenance Plan

(EPs 1, 2, 3, 4)

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

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. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>0%) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation. A written record of the observations of visible emissions and any associated 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 Eagle Grove, Iowa
Baghouse Agency Operation & Maintenance Plan
(EPs 5, 6, 12, 14, 21, 31, and 65)

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

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 Eagle Grove, Iowa
Baghouse Agency Operation & Maintenance Plan
(EPs 34 & 35 – Boiler Baghouses)

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

Bag Leak Detection System

- The facility shall install a bag leak detection system in the common boiler stack. This bag leak detection system shall meet the requirements of 63.7525(j) of the Boiler MACT (subpart DDDDD). (For this purpose, the term "fabric filter bag leak detection system" means a system that is capable of continuously monitoring relative particulate emissions (dust) loadings in the exhaust of a baghouse in order to detect bag leaks and other upset conditions.)
- The facility shall calibrate, maintain, and continuously operate the bag leak detection system, in accordance with the system manufacturer's instructions, to monitor the baghouse performance.
- The baghouses shall be operated such that the bag leak detection system alert is not activated more than 5 percent of the operating time during each 6-month period.
- If the bag leak detection system alert is activated, the emission unit and control equipment shall be investigated as soon as possible and any needed corrective actions to the associated operation or equipment shall be made.
- A written record of each activation of the bag leak detection system alert 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 Eagle Grove, Iowa
Cyclone Agency Operation & Maintenance Plan
(EPs 22, 23, 24, 25, 26, & 27)

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.