

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

Name of Permitted Facility: Georgia-Pacific Gypsum LLC,
Fort Dodge, IA
Facility Location: 2374 Mill Road, Fort Dodge, IA 50501
Air Quality Operating Permit Number: 99-TV-035R3
Expiration Date: 9/12/2028
Permit Renewal Application Deadline: 3/12/2028

EIQ Number: 92-2162
Facility File Number: 94-01-010

Responsible Official

Name: Christopher Stopczynski
Title: Plant Manager
Mailing Address: 2374 Mill Road, Fort Dodge, IA 50501
Phone #: (515) 955-0136

Permit Contact Person for the Facility

Name: RueAnn Thomas
Title: Environmental Manager
Mailing Address: 2374 Mill Road, Fort Dodge, IA 50501
Phone #: (515) 955-0126

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

9/13/2023

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
CE	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP.....	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
Msf	1,000 square feet
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS	new source performance standard
ppmv	parts per million by volume
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC	Standard Industrial Classification
TPY.....	tons per year
USEPA.....	United States Environmental Protection Agency

Pollutants

PM.....	particulate matter
PM ₁₀	particulate matter ten microns or less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
VOC	volatile organic compound
CO.....	carbon monoxide
HAP.....	hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: Georgia-Pacific Gypsum LLC, Fort Dodge, IA

Permit Number: 99-TV-035R3

Facility Description: Gypsum Wallboard Manufacturing (SIC 3275)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
1	1	Road Traffic – Gypsum Hauling	NA
2	2	Uncrushed Gypsum Ore Outdoor Stockpile	NA
3	3	Reclaim Gypsum Outdoor Stockpile	NA
12RU	12RU	Transfer from Radial Stacker	12-A-548-S2
12	13	Crushed Outdoor Stockpile – Post Screen via Radial Stacker	NA
13	14	Crushed Indoor Stockpile – Post Screen via Radial Stacker	NA
28J	46A	Stucco Storage Bin West #1	78-A-185-S1
28K	46B	Stucco Storage Bin West #2	22-A-036
28L	48A	Stucco Storage Bin East #1	22-A-037
28M	48B	Stucco Storage Bin East #2	22-A-038
29	52	Pin Mixer	89-A-131-S2
	74	Blender	
	75	Conveyance	
	76	Bucket Elevator	
32	82	Board Dryer	02-A-889-S3
33	83	Board Dryer	02-A-890-S3
34	84	Board Dryer	02-A-891-S3
35	85	Board Dryer	99-A-298-S4
36	86	Board Dryer	02-A-892-S3
37	87	Board Drying Kiln Dry End Seal (DES)	02-A-893-S3
49	67	Starch Bin	90-A-045-S1
	68	Starch Feed Hopper	
51C	58	Ball Mill 1	98-A-600
	59	Ball Mill 2	
	60	Ball Mill 3	
53	102	Belt Conveyor	99-A-401-S4
	217	Transfer Bin	
55	101	Transfer to HAC Conveyor	99-A-402-S1
	103	Gypsum Bin	
56	104	Chain Feeder	99-A-403-S2
	105	Ball Race Mill	
	106	Hot Gas Generator	
57	107	Closed Aeroslide	99-A-404-S3
	108	Stucco Cooler	
61	118	DENS Off-Line Roller Coating System	02-A-894-S2

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
62	119	Holtec Saw	02-A-895-S2
63 64	120	Transfer from Front-End Loader to Hopper/Feeder	17-A-561-S2 17-A-562-S2
	123A	Impactor (Crusher)	
	123B	Impactor Conveyor	
	124	Transfer from Impactor Conveyor to Vibrating Screen	
	125	Vibrating Screen	
	126	Transfer from Vibrating Screen to Fines Conveyor	
65	129	Take-Off System	20-A-285
66	229	Emergency Engine	NA

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
I51	Blender Baghouse Fines Transfer to Hopper
I53	Stucco Transfer to Bypass Bin
I57	Lignosite Transfer into Bin
I76	Paper Unrolling and Feeding
I99	Cold Cleaning of Maintenance Parts
I110	Natural Gas Space Heating (0.24 MMBtu/hr.)
I113	Diesel Storage Tank (500 gallons)
I114	Propane Storage Tank (1,000 gallons) & Filling Activities
I200	Cold Cleaning of Maintenance Parts
I201	DENS Gold Edge Painting
I209	Holtec Baghouse Gypsum Fines Material Handling
I210	Paper Screen Fines Transfer to Bin
I216	Blend Building Fugitive Emissions
I218	Transfer from HAC Belt to Rock Bin
I222	Board Pick-up Dust Collector
I224	Inkjet Printer
I225	Pre-Gel Starch Unload and Feed System
I227	Potash Manual Feeder
I230	Water Tower Water Heater
I231	Riser Machine
I232	Riser Machine Dust Collector Drop Point
I233	STMP Unloading
I127	Transfer from Screw Conveyor to Bunker
I128	Front End Loader Transfer from Bunker to Stockpile

II. Plant-Wide Conditions

Facility Name: Georgia-Pacific Gypsum LLC, Fort Dodge, IA
Permit Number: 99-TV-035R3

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

Permit Duration

The term of this permit is: Five (5) years from permit issuance
Commencing on: 9/13/2023
Ending on: 9/12/2028

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 (SO₂): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter:

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

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

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

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits 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 roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) 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 public 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 be 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, fertilizer 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.
6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

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

III. Emission Point-Specific Conditions

Facility Name: Georgia-Pacific Gypsum LLC, Fort Dodge, IA
Permit Number: 99-TV-035R3

Emission Point ID Number: 1

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
1	Road Traffic – Gypsum Hauling	Vehicle Traffic	NA	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: Fugitive Dust

Emission Limit: 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, without taking reasonable precautions to prevent a nuisance. All persons 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.

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 2 & 3

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2	2	Uncrushed Gypsum Ore Outdoor Stockpile	Crude Gypsum	350 tons/hr.	NA
3	3	Reclaim Gypsum Outdoor Stockpile	Crude Gypsum	50 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: Fugitive Dust

Emission Limit: 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, without taking reasonable precautions to prevent a nuisance. All persons 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.

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

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: 12RU

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
12RU	Transfer from Radial Stacker	Gypsum	226 tons/hr.	12-A-548-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 7%⁽¹⁾

Authority for Requirement: DNR Construction Permit 12-A-548-S2
567 IAC 23.1(2)"bbb"
40 CFR 60 Subpart OOO

⁽¹⁾The owner or operator shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dust beyond the lot line of the property.

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 comply with the applicable requirements in 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plants* [§60.670 - §60.676], including those not specifically mentioned in this permit.
 - a. The owner or operator shall comply with the applicable reporting and recordkeeping requirements in 40 CFR §60.676 of Subpart OOO.

Authority for Requirement: DNR Construction Permit 12-A-548-S2
567 IAC 23.1(2)"bbb"
40 CFR 60 Subpart OOO

Monitoring Requirements

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

Opacity:

Visible emissions shall be observed on a weekly basis to ensure that none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity greater than 7% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

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

Stack Testing:

Pollutant - Opacity

Opacity Observation shall be completed once every five (5) years.⁽¹⁾

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

Authority for Requirement – DNR Construction Permit 12-A-548-S2

⁽¹⁾ Previous observation was completed on 6/22/2023.

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 12 & 13

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
12	13	Crushed Outdoor Stockpile – Post Screen via Radial Stacker	Gypsum	165 tons/hr.	NA
13	14	Crushed Indoor Stockpile – Post Screen via Radial Stacker	Gypsum	165 tons/hr.	NA

Applicable Requirements

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

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

Pollutant: Fugitive Dust

Emission Limit: 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, without taking reasonable precautions to prevent a nuisance. All persons 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.

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

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: 28J, 28K, 28L, and 28M

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
28J	46A	Stucco Storage Bin West #1	CE18: Baghouse	Stucco	65 tons/hr.	78-A-185-S1
28K	46B	Stucco Storage Bin West #2	CE19: Baghouse	Stucco	65 tons/hr.	22-A-036
28L	48A	Stucco Storage Bin East #1	CE20: Baghouse	Stucco	65 tons/hr.	22-A-037
28M	48B	Stucco Storage Bin East #2	CE21: Baghouse	Stucco	65 tons/hr.	22-A-038

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 78-A-185-S1, 22-A-036, 22-A-037, 22-A-038
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.18 lb/hr, 0.1 gr/dscf.

Authority for Requirement: DNR Construction Permit 78-A-185-S1, 22-A-036, 22-A-037, 22-A-038
567 IAC 23.3(2)"a"

Pollutant: PM_{2.5}

Emission Limit(s): 0.10 lb/hr

Authority for Requirement: DNR Construction Permit 78-A-185-S1, 22-A-036, 22-A-037, 22-A-038

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 baghouses (CE-18, CE-19, CE-20, and CE-21) whenever the emission unit associated with each emission point (EP-28J, EP-28K, EP-28L, and EP-28M) is in operation.
2. The owner or operator shall conduct visible emissions observations on each of these emission points (EP-28J, EP-28K, EP-28L, and EP-28M) once per calendar day. This requirement shall not apply on the days that the applicable stucco storage bin is not in operation.
 - a. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.
 - b. If visible emissions from any of these emission points are observed, the owner or operator shall investigate the applicable emission unit or control equipment and make corrections to the associated equipment.
 - c. The owner or operator shall maintain a record of all corrective actions taken.
3. The owner or operator shall operate, inspect, and maintain these baghouses (CE-18, CE-19, CE-20, and CE-21) according to the manufacturer's specifications and instructions.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on these baghouses (CE-18, CE-19, CE-20, and CE-21). At a minimum, this log shall include the following:
 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 2. Any issues identified during inspection and maintenance activities;
 3. The date each issue was resolved; and
 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 78-A-185-S1, 22-A-036, 22-A-037, 22-A-038

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): Indoor Vented

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 920

Exhaust Temperature (°F): 170

Discharge Style: Indoor Vented

Authority for Requirement: DNR Construction Permit 78-A-185-S1, 22-A-036, 22-A-037,
22-A-038

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: 29**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
52	Conveyor	CE6: Baghouse	Stucco	65 tons/hr.	89-A-131-S2
74	Blender		Stucco	65 tons/hr.	
75	Pin Mixer		Stucco	65 tons/hr.	
76	Bucket Elevator		Stucco	65 tons/hr.	

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 89-A-131-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.75 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 89-A-131-S2
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.

1. The owner or operator shall operate the baghouse (CE-6) whenever the emission units associated with EP-29 are in operation.
2. The owner or operator shall conduct visible emissions observations on EP-29 once per calendar day. This requirement shall not apply on the days that none of the emission units associated with EP-29 is in operation.
 - a. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.

- b. If visible emissions from EP-29 are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated equipment.
- c. The owner or operator shall maintain a record of all corrective actions taken.
- 3. The owner or operator shall operate, inspect, and maintain the baghouse (CE-6) according to the manufacturer's specifications and instructions.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-6). At a minimum, this log shall include the following:
 - 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 - 2. Any issues identified during inspection and maintenance activities;
 - 3. The date each issue was resolved; and
 - 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 89-A-131-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 31

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 2,160

Exhaust Temperature (°F): 68

Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permit 89-A-131-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 Numbers: 32, 33, 34, 35, 36, 37 (Board Drying Kiln)

Associated Equipment

Emission Point	Emission Unit*	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
32	82	Board Drying Kiln Zone 1	Natural Gas	27.5 MMBtu/hr.	02-A-889-S3
33	83	Board Drying Kiln Zone 2	Natural Gas	27.5 MMBtu/hr.	02-A-890-S3
34	84	Board Drying Kiln Zone 3	Natural Gas	22.5 MMBtu/hr.	02-A-891-S3
35	85	Board Drying Kiln Zone 4	Natural Gas	22.9 MMBtu/hr.	99-A-298-S4
36	86	Board Drying Kiln Zone 5	Natural Gas	13.1 MMBtu/hr.	02-A-892-S3
37	87	Board Drying Kiln Dry End Seal (DES)	Gypsum Board	66,000 sqft/hr	02-A-893-S3

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-889-S3, 02-A-890-S3, 02-A-891-S3, 99-A-298-S4, 02-A-892-S3, 02-A-893-S3
567C 23.3(2)"d"

⁽¹⁾EP-33: 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).

⁽²⁾ EP-32, EP-34 to EP-37 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).

Per Emission Point

Emission Point	Particulate Matter (PM)		PM ₁₀ lb/hr	PM _{2.5} lb/hr	Sulfur Dioxide ppm _v ⁽²⁾	Carbon Monoxide lb/hr	Authority for Requirement
	lb/hr	gr/dscf ⁽¹⁾					
32	0.27	0.1	0.24	0.23	500	2.63	02-A-889-S3
33	16.41	0.1	7.0	3.56	500	22.54	02-A-890-S3
34	6.07	0.1	3.24	2.87	500	9.62	02-A-891-S3
35	1.95	0.1	1.19	0.87	500	6.14	99-A-298-S4
36	0.08	0.1	0.06	0.05	500	1.03	02-A-892-S3
37	1.46	0.1	0.69	0.50	NA	4.10	02-A-893-S3

Authority for Requirement: ⁽¹⁾567 IAC 23.3(2)"a"(1)

⁽²⁾567 IAC 23.3(3)"e"

Combined Emission Limits

Pollutant: VOC

Emission Limit(s): 48.18 lb/hr

Authority for Requirement: DNR Construction Permits 02-A-889-S3, 02-A-890-S3,
02-A-891-S3, 99-A-298-S4, 02-A-892-S3, 02-A-893-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.

1. The owner or operator shall use natural gas as the only fuel for the board drying kiln.
 - a. The owner or operator shall maintain a record of the type of fuel burned in the board drying kiln.
 - b. Prior to burning any other fuel in this unit, the owner or operator shall apply for, and obtain, amended construction permits from the Department.
2. The owner or operator shall be restricted to manufacturing water-resistant wallboard and regular wallboard at Plant No. 94-01-010, as determined in the initial compliance test required by this permit.
 - a. The owner or operator shall maintain a record of the type of wallboard manufactured at Plant No. 94-01-010.
 - b. Prior to producing any other wallboard type, the owner or operator shall seek determination on whether a permit amendment is needed.

Authority for Requirement: DNR Construction Permits 02-A-889-S3, 02-A-890-S3,
02-A-891-S3, 99-A-298-S4, 02-A-892-S3, 02-A-893-S3

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Emission Point	Stack Height, (ft., from the ground)	Stack Opening, (inches, dia.)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
32	30	36	4,025	300	Vertical, obstructed	02-A-889-S3
33	30	36	49,250	300	Vertical, obstructed	02-A-890-S3
34	30	36	41,980	300	Vertical, obstructed	02-A-891-S3
35	30	36	18,370	300	Vertical, obstructed	99-A-298-S4
36	36	36	2,520	150	Vertical, obstructed	02-A-892-S3
37	36	36	50,250	160	Vertical, obstructed	02-A-893-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: Yes

See Project 21-185 Collection of Air Permits for construction permit required testing.

Stack Test to be Completed by (date) – 8/24/23*

Authority for Requirement: DNR Construction Permits 02-A-889-S3, 02-A-890-S3,
02-A-891-S3, 99-A-298-S4, 02-A-892-S3, 02-A-893-S3

*Stack Test was completed on 7/29/2023. These results have not yet been reviewed by the Department.

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 49 (Vents Internally)

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
67	Starch Bin	CE8: Baghouse	Starch	50 tons/hr.	90-A-045-S1
68	Starch Feed Hopper		Starch	50 tons/hr.	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 90-A-045-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.17 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 90-A-045-S1
567 IAC 23.3(2)"a"

Pollutant: PM_{2.5}

Emission Limit(s): 0.09 lb/hr.

Authority for Requirement: DNR Construction Permit 90-A-045-S1

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 baghouse (CE-8) whenever the emission units associated with EP-49 are in operation.
2. The owner or operator shall conduct visible emissions observations on EP-49 once per calendar day. This requirement shall not apply on the days that none of the emission units associated with EP-49 is in operation.
 - a. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.

- b. If visible emissions from EP-49 are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated equipment.
- c. The owner or operator shall maintain a record of all corrective actions taken.
- 3. The owner or operator shall operate, inspect, and maintain the baghouse (CE-8) according to the manufacturer's specifications and instructions.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-8). At a minimum, this log shall include the following:
 - 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 - 2. Any issues identified during inspection and maintenance activities;
 - 3. The date each issue was resolved; and
 - 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 90-A-045-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): Indoor Vented

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 865

Exhaust Temperature (°F): 68

Discharge Style: Indoor Vented

Authority for Requirement: DNR Construction Permit 90-A-045-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: 51C (Vents Internally)

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
58	Ball Mill 1	Landplaster	0.45 tons/hr.	98-A-600
59	Ball Mill 2	Landplaster	0.45 tons/hr.	
60	Ball Mill 3	Landplaster	0.45 tons/hr.	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): No owner or operator shall cause to be discharged into the atmosphere from:

1. Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed 7 percent opacity
2. Any vent of any building enclosing the sources (Ball Mills 1, 2, and 3) listed in this permit (98-A-600) emissions which exceed:
 - a. Particulate matter in excess of 0.05 grams/dscm (0.02 grains/dscf).
 - b. Opacity greater than 7 %.

Authority for Requirement: DNR Construction Permit 98-A-600
567 IAC 23.1(2)"bbb"
40 CFR 60.672

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. These sources are subject to 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

Authority for Requirement: DNR Construction Permit 98-A-600
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Monitoring Requirements

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

Opacity:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use EPA Method 22.

If visible emissions, other than emissions from a vent as defined in 40 CFR 60.671, are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If visible emissions are observed from a vent, a Method 9 reading must be performed by a certified smoke reader. If an opacity > 7% is observed from the vent, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

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: 53**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
102	Belt Conveyor	CE22: Baghouse	Gypsum	165 tons/hr	99-A-401-S4
217	Transfer Bin		Gypsum	165 tons/hr	

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

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

Pollutant: Opacity

Emission Limit(s): 7%

Authority for Requirement: DNR Construction Permit 99-A-401-S4
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.022 gr/dscf, 0.29 lb/hr 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 99-A-401-S4
567 IAC 23.1(2)"bbb"
40 CFR 60.672
567 IAC 23.3(2)"a"

Pollutant: PM₁₀

Emission Limit(s): 0.13 lb/hr.

Authority for Requirement: DNR Construction Permit 99-A-401-S4

Pollutant: PM_{2.5}

Emission Limit(s): 0.07 lb/hr.

Authority for Requirement: DNR Construction Permit 99-A-401-S4

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 applicable baghouse (CE-22) whenever the associated emission units are in operation.
2. The owner or operator shall comply with the applicable requirements in 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plants* [§60.670 - §60.676], including those not specifically mentioned in this permit.
 - a. The owner or operator shall comply with the applicable reporting and

recordkeeping requirements in 40 CFR §60.676 of Subpart OOO.

3. The owner or operator shall conduct visible emissions observations on EP-53 once per calendar day. This requirement shall not apply on the days that the applicable emission units are not in operation.
 - a. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.
 - b. If visible emissions from any of the emission points listed in Permit Condition 3 are observed, the owner or operator shall investigate the applicable emission unit or control equipment and make corrections to the associated equipment.
 - c. The owner or operator shall maintain a record of all corrective actions taken.
4. The owner or operator shall operate, inspect, and maintain the baghouse (CE-22) according to the manufacturer's specifications and instructions.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouses (CE-22). At a minimum, this log shall include the following:
 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 2. Any issues identified during inspection and maintenance activities;
 3. The date each issue was resolved; and
 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 99-A-401-S4
567 IAC 23.1(2)"bbb"
40 CFR 60 Subpart OOO

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 25

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 1,500

Exhaust Temperature (°F): 68

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 99-A-401-S4

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

Monitoring Requirements

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

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: 55 (Vents Internally)

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
101	Transfer to HAC Conveyor	CE23: Baghouse	Gypsum	125 tons/hr.	99-A-402-S3
103	Gypsum Bin		Gypsum	125 tons/hr.	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 7%

Authority for Requirement: DNR Construction Permit 99-A-402-S3
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.022 gr/dscf, 0.19 lb/hr 0.1gr/dscf

Authority for Requirement: DNR Construction Permit 99-A-402-S3
567 IAC 23.1(2)"bbb"
40 CFR 60.672
567 IAC 23.3(2)"a"

Pollutant: PM₁₀

Emission Limit(s): 0.09 lb/hr.

Authority for Requirement: DNR Construction Permit 99-A-402-S3

Pollutant: PM_{2.5}

Emission Limit(s): 0.05 lb/hr.

Authority for Requirement: DNR Construction Permit 99-A-402-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.

1. The owner or operator shall operate the applicable baghouse (CE-23) whenever the associated emission units are in operation.
2. The owner or operator shall comply with the applicable requirements in 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plants* [§60.670 - §60.676], including those not specifically mentioned in this permit.

- a. The owner or operator shall comply with the applicable reporting and recordkeeping requirements in 40 CFR §60.676 of Subpart OOO.
3. The owner or operator shall conduct visible emissions observations on EP-55 once per calendar day. This requirement shall not apply on the days that the applicable emission units are not in operation.
 - a. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.
 - b. If visible emissions from any of the emission points listed in Permit Condition 3 are observed, the owner or operator shall investigate the applicable emission unit or control equipment and make corrections to the associated equipment.
 - c. The owner or operator shall maintain a record of all corrective actions taken.
4. The owner or operator shall operate, inspect, and maintain the baghouse (CE-23) according to the manufacturer's specifications and instructions.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouses (CE-23). At a minimum, this log shall include the following:
 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 2. Any issues identified during inspection and maintenance activities;
 3. The date each issue was resolved; and
 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 99-A-402-S1
 567 IAC 23.1(2)"bbb"
 40 CFR 60 Subpart OOO

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 25 (Indoor Vented)

Stack Opening, (inches, dia.): Indoor Vented

Exhaust Flow Rate (scfm): 1,000

Exhaust Temperature (°F): 68

Discharge Style: Indoor Vented

Authority for Requirement: DNR Construction Permit 99-A-402-S3

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

Monitoring Requirements

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

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: 56**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
104	Chain Feeder	CE24: CP Mill North Baghouse	Gypsum	50 tons/hr.	99-A-403-S2
105	Ball Race Mill		Gypsum	50 tons/hr.	
106	Hot Gas Generator	CE25: CP Mill South Baghouse	Natural Gas	56.4 MMBtu/hr	

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

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

Pollutant: Opacity

Emission Limit(s): 7%

Authority for Requirement: DNR Construction Permit 99-A-403-S2
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.022 gr/dscf, 6.60 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 99-A-403-S2
567 IAC 23.1(2)"bbb"
40 CFR 60.672
567 IAC 23.3(2)"a"(1)

Pollutant: PM₁₀

Emission Limit(s): 4.50 lb/hr.

Authority for Requirement: DNR Construction Permit 99-A-403-S2

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 99-A-403-S2
567 IAC 23.3(3)"e"

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 4.52 lb/hr.

Authority for Requirement: DNR Construction Permit 99-A-403-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.

1. The owner or operator shall comply with the applicable requirements in 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plants* [§60.670 - §60.676], including those not specifically mentioned in this permit.
 - a. The owner or operator shall comply with the applicable reporting and recordkeeping requirements in 40 CFR §60.676 of Subpart OOO.
4. The owner or operator shall operate the baghouses (CE-24 and CE-25) whenever the emission units associated with EP-56 are in operation.
5. The owner or operator shall conduct visible emissions observations on EP-56 once per calendar day. This requirement shall not apply on the days that none of the emission units associated with EP-56 is in operation.
 - a. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.
 - b. If visible emissions from EP-56 are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated equipment.
 - c. The owner or operator shall maintain a record of all corrective actions taken.
6. The owner or operator shall operate, inspect, and maintain the baghouses (CE-24 and CE-25) according to the manufacturer’s specifications and instructions.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouses (CE-24 and CE-25). At a minimum, this log shall include the following:
 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 2. Any issues identified during inspection and maintenance activities;
 3. The date each issue was resolved; and
 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 99-A-403-S2
567 IAC 23.1(2)"bbb"
40 CFR 60 Subpart OOO

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 105
- Stack Opening, (inches, dia.): 54
- Exhaust Flow Rate (scfm): 35,000
- Exhaust Temperature (°F): 350
- Discharge Style: Vertical, Unobstructed
- Authority for Requirement: DNR Construction Permit 99-A-403-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
(See Appendix A)

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 57**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
107	Closed Aero Slide	CE26: Baghouse	Gypsum	50 tons/hr.	99-A-404-S3
108	Stucco Cooler		Gypsum	50 tons/hr.	

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

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

Pollutant: Opacity

Emission Limit(s): 7%

Authority for Requirement: DNR Construction Permit 99-A-404-S3
567 IAC 23.1(2)"bbb"
40 CFR 60.675(c)(3)

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.022 gr/dscf, 4.92 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 99-A-404-S3
567 IAC 23.1(2)"bbb"
40 CFR 60.672
567 IAC 23.3(2)"a"

Pollutant: PM₁₀

Emission Limit(s): 4.46 lb/hr.

Authority for Requirement: DNR Construction Permit 99-A-404-S3

Pollutant: PM_{2.5}

Emission Limit(s): 2.60 lb/hr.

Authority for Requirement: DNR Construction Permit 99-A-404-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.

1. The owner or operator shall comply with the applicable requirements in 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plants* [§60.670 - §60.676], including those not specifically mentioned in this permit.
 - a. The owner or operator shall comply with the applicable reporting and recordkeeping requirements in 40 CFR §60.676 of Subpart OOO.

2. The owner or operator shall operate the baghouse (CE-26) whenever the emission units associated with EP-57 are in operation.
3. The owner or operator shall conduct visible emissions observations on EP-57 once per calendar day. This requirement shall not apply on the days that none of the emission units associated with EP-57 is in operation.
 - a. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.
 - b. If visible emissions from EP-57 are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated equipment.
 - c. The owner or operator shall maintain a record of all corrective actions taken.
4. The owner or operator shall operate, inspect, and maintain the baghouse (CE-26) according to the manufacturer's specifications and instructions.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-26). At a minimum, this log shall include the following:
 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 2. Any issues identified during inspection and maintenance activities;
 3. The date each issue was resolved; and
 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 99-A-404-S3
 567 IAC 23.1(2)"bbb"
 40 CFR 60 Subpart OOO

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 56

Stack Opening, (inches, dia.): 54

Exhaust Flow Rate (scfm): 26,100

Exhaust Temperature (°F): 85

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 99-A-404-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 – Particulate Matter

Stack Test to be Completed by (date) – 9/12/2025

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

Authority for Requirement – 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be Completed by (date) – 9/12/2025

Test Method - 40 CFR 51 Appendix M, 201A with 202

Authority for Requirement – 567 IAC 22.108(3)

Pollutant – PM_{2.5}

Stack Test to be Completed by (date) – 9/12/2025

Test Method - 40 CFR 51 Appendix M, 201A with 202

Authority for Requirement – 567 IAC 22.108(3)

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No
(See Appendix A)

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 61**Associated Equipment**

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
118	DENS Off-Line Roller Coating System	Product Coating	31.1 gallons/hr.	02-A-894-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.

There are no emission limits at this time.

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 VOC-containing coatings used in the operation of the Dens® Off-Line Roller Coating System (EU-118) shall not exceed 0.1 pounds of VOC per gallon.
2. The HAP-containing coatings used in the operation of the Dens® Off-Line Roller Coating System (EU-118) shall not exceed 0.069 pounds of Single HAP per gallon.
3. The HAP-containing coatings used in the operation of the Dens® Off-Line Roller Coating System (EU-118) shall not exceed 0.1 pounds of Total HAP per gallon.
4. The owner or operator shall maintain on-site manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for all VOC- and HAP-containing coatings, in pounds of VOC and HAP/gallon of coating, used in the operation of the Dens® Off-Line Roller Coating System (EU-118).

Authority for Requirement: DNR Construction Permit 02-A-894-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 16
Stack Opening, (inches, dia.): 26
Exhaust Flow Rate (scfm): 600
Exhaust Temperature (°F): 100
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 02-A-894-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: 62

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
119	Holtec Saw	CE27: Baghouse	Gypsum Board	14,400 sqft/hr.	02-A-895-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-895-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.73 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 02-A-895-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.

1. The owner or operator shall operate the baghouse (CE-27) whenever the Holtec Saw (EU-119) is in operation.
2. The owner or operator shall conduct visible emissions observations on EP-62 once per calendar day. This requirement shall not apply on the days that none of the emission units associated with EP-62 is in operation.
 - a. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.

- b. If visible emissions from EP-62 are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated equipment.
 - c. The owner or operator shall maintain a record of all corrective actions taken.
 3. The owner or operator shall operate, inspect, and maintain the baghouse (CE-27) according to the manufacturer's specifications and instructions.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-27). At a minimum, this log shall include the following:
 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 2. Any issues identified during inspection and maintenance activities;
 3. The date each issue was resolved; and
 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 02-A-895-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 16.2

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 5,240

Exhaust Temperature (°F): 68

Discharge Style: Vertical, obstructed

Authority for Requirement: DNR Construction Permit 02-A-895-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 – Particulate Matter

Stack Test to be Completed by (date) – 9/12/2025

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

Authority for Requirement – 567 IAC 22.108(3)

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No
(See Appendix A)

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 63 & 64

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity (tons/hr.)	Construction Permit
120	Transfer from Front-End Loader to Hopper/Feeder	None	Gypsum	226	17-A-561-S2 17-A-562-S2
121	Impactor (Crusher)	Baghouse (CE-28)	Gypsum	226	
122	Impactor Conveyor		Gypsum	226	
123A	Transfer from Impactor Conveyor to Vibrating Screen	Partial Enclosure (CE-34)	Gypsum	226	
123B	Vibrating Screen	Partial Enclosure (CE-35)	Gypsum	226	
124	Transfer from Vibrating Screen to Fines Conveyor	None	Gypsum	226	
125	Transfer from Vibrating Screen to Recirculating Conveyor	None	Gypsum	226	
126	Transfer from Recirculating Conveyor to Overs Hopper/Feeder	Partial Enclosure (CE-36)	Gypsum	226	

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: Particulate Matter (PM)

Emission Limit(s): 3.57 lb/hr., 0.1gr/dscf

Authority for Requirement: DNR Construction Permit 17-A-561-S2 & 17-A-562-S2
567 IAC 23.3(2)"a"(1)

Pollutant: PM₁₀

Emission Limit(s): 1.98 lb/hr.

Authority for Requirement: DNR Construction Permit 17-A-561-S2 & 17-A-562-S2

Pollutant: PM_{2.5}

Emission Limit(s): 0.83 lb/hr.

Authority for Requirement: DNR Construction Permit 17-A-561-S2 & 17-A-562-S2

EU-120, EU-123A, EU-123B, EU-124, EU-125, EU-126

Pollutant: Opacity

Emission Limit(s): 7%⁽¹⁾

Authority for Requirement: DNR Construction Permit 17-A-561-S2 & 17-A-562-S2
567 IAC 23.1(2)"bbb"
40 CFR 60.672

⁽¹⁾Per Table 3 of Subpart OOO and as indicated in 40 CFR §60.672(b), the owner or operator shall meet this *fugitive opacity* limit for affected sources **without capture systems** that commenced construction, modification, or reconstruction on or after April 22, 2008.

Other Limits

Pollutant: Particulate Matter (PM) Federal

Emission Limit: 0.014gr/dscf⁽²⁾⁽³⁾

Authority for Requirement: DNR Construction Permit 17-A-561-S2 & 17-A-562-S2
567 IAC 23.3(2)"bbb"

⁽²⁾Crusher (EU-121) and Conveyor (EU-122), which are located inside the Crusher Building, vent to a common baghouse (CE-28)

⁽³⁾Per Table 2 of Subpart OOO and as indicated in 40 CFR §60.672(e)(2) of Subpart OOO, the owner or operator shall meet this *federal particulate matter* limit for affected sources **with capture systems** that commenced construction, modification, or reconstruction on or after April 22, 2008.

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 applicable baghouse (CE-28) whenever the associated emission units are in operation.
2. The owner or operator shall ensure that all doors associated with the Crusher Building remain closed while Emission Units 121, 122, 123A, 123B, and 124 through 126 are in operation, except for periods when EU-120 (Transfer from Front-End Loader to Hopper/Feeder) is in operation.
3. The owner or operator shall comply with the applicable requirements in 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plants* [§60.670 - §60.676], including those not specifically mentioned in this permit.
 - a. As specified in §60.674(c) of Subpart OOO, the owner or operator shall conduct quarterly 30-minute visible emissions using EPA Method 22 (40 CFR Part 60, Appendix A-7) on the baghouse (CE-28) controlling emissions from EU-121 [Impactor (Crusher)] and EU-122 (Impactor Conveyor).
 - i. Method 22 test shall be conducted while EU-121 and EU-122 are operating.
 - ii. The test is successful if no visible emissions are observed.
 1. The test is successful if no visible emissions are observed.
 2. If any visible emissions are observed, the owner or operator of the affected facility shall initiate corrective action within 24 hours to return the baghouse to normal operation.
 - iii. The owner or operator shall record each Method 22 test, including the date and any corrective actions taken, in the logbook required under §60.676(b)
 - b. The owner or operator shall comply with the applicable reporting and recordkeeping requirements in 40 CFR §60.676 of Subpart OOO.

4. The owner or operator shall operate, inspect, and maintain the baghouse (CE-28) according to the manufacturer's specifications and instructions.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-28). At a minimum, this log shall include the following:
 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 2. Any issues identified during inspection and maintenance activities;
 3. The date each issue was resolved; and
 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 17-A-561-S2 & 17-A-562-S2
567 IAC 23.1(2)"bbb"
40 CFR 60 Subpart OOO

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 25

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 17,500

Exhaust Temperature (°F): 68

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 17-A-561-S2 & 17-A-562-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: EU120, 123A, 123B, 124, 125, 126

Pollutant - Opacity

Stack Test to be Completed by - 3/28/2028⁽¹⁾

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

Authority for Requirement – DNR Construction Permit 17-A-561-S2 & 17-A-562-S2

567 IAC 23.1(2)"bbb"

40 CFR 60.675(C)(1)(i-ii)

40 CFR 60.675(C)(3)

⁽¹⁾ Required once every five (5) years for each emission point. Observations were last completed 3/29/2023

EP-63 & EP64 (EU-121 - EU-122)

Pollutant - Opacity

Stack Test to be Completed - Quarterly

Test Method - 40 CFR 60, Appendix A, Method 22

Authority for Requirement – DNR Construction Permit 17-A-561-S2 & 17-A-562-S2

567 IAC 23.1(2)"bbb"

40 CFR 60.674(C)

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No
(See Appendix A)

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 65

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
129	Take-Off System	Baghouse (CE-37)	Gypsum	66,000 sqft/hr.	20-A-285

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 20-A-285
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.17 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 20-A-285
567 IAC 23.3(2)"a"(1)

Pollutant: PM₁₀

Emission Limit(s): 1.17 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 20-A-285
567 IAC 23.3(2)"a"(1)

Pollutant: PM_{2.5}

Emission Limit(s): 0.61 lb/hr.

Authority for Requirement: DNR Construction Permit 20-A-285

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 conduct visible emissions observations on EP-65 once per calendar day. This requirement shall not apply on the days that the Take-Off System (EU-129) is not in operation.
 - a. The owner or operator shall record the date and time of the observation and the presence or absence of visible emissions.

- b. If visible emissions from EP-65 are observed, the owner or operator shall investigate the emission unit or control equipment and make corrections to the associated equipment.
- c. The owner or operator shall maintain a record of all corrective actions taken.
2. The owner or operator shall operate, inspect, and maintain the baghouse (CE-37) according to the manufacturer's specifications and instructions.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-37). At a minimum, this log shall include the following:
 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - a. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 2. Any issues identified during inspection and maintenance activities;
 3. The date each issue was resolved; and
 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 20-A-285

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 12

Stack Opening, (inches, dia.): 21

Exhaust Flow Rate (scfm): 6,780

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, obstructed

Authority for Requirement: 20-A-285

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

Monitoring Requirements

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

Stack Testing:

Pollutant – Particulate Matter

Stack Test to be Completed by (date) – 9/12/2025

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

Authority for Requirement – 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be Completed by (date) – 9/12/2025

Test Method - 40 CFR 51 Appendix M, 201A with 202

Authority for Requirement – 567 IAC 22.108(3)

Pollutant – PM_{2.5}

Stack Test to be Completed by (date) – 9/12/2025

Test Method - 40 CFR 51 Appendix M, 201A with 202

Authority for Requirement – 567 IAC 22.108(3)

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No
(See Appendix A)

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 66

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
229	Emergency Engine	Natural Gas	13 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: 40%

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

Pollutant: Particulate Matter (PM)

Emission Limit: 0.1 gr/dscf

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 500ppm_v

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

For additional requirements see NSPS requirements below.

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.

NESHAP:

The emergency engine is subject to 40 CFR Part 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(ii) this spark ignition emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after June 12, 2006.

According to 40 CFR 63.6590(c)(6), this emergency engine must meet the requirements of subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart JJJJ for spark ignition engines. No further requirements apply for this engine under subpart ZZZZ.

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

NSPS:

Certification Requirements:

According to 60.4231(a) and 60.4233(a), the engine manufacturers must certify these engines to the following emission standards in grams/kW-hr (grams/HP-hr) and other requirements for new nonroad SI engines in 40 CFR Part 90 or 1054 as follows:

Engine Displacement ⁽¹⁾	Manufacture Date	HC + NOx	NMHC + NOx ⁽²⁾	CO	Rule Reference
≥ 225 cc	1/1/2011 +	8.0 (6.0)	-----	610 (455)	40 CFR 1054

⁽¹⁾ cc = cubic centimeters.

⁽²⁾ NMHC + NOx standards are applicable only to natural gas fuel engines at the option of manufacturer in lieu of HC + NOx standards.

Requirements for Certified SI Engines:

1. Owners and operators must keep a record from the manufacturer that the engines are certified to meet applicable emission standards. 40 CFR 60.4245(a)(3).
2. Owners and operators of SI engines that are required to be certified and who operate and maintain the engine according to the manufacturer's written instructions must keep records of required maintenance. 40 CFR 60.4243(a)(1).

Authority for Requirement: 40 CFR 60 Subpart JJJJ
567 IAC 23.1(2)"zzz"

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 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

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

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

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

- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

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

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

5. The permittee shall be allowed to switch from any ozone-depleting 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

Appendix A: Compliance Assurance Monitoring Plan

COMPLIANCE ASSURANCE MONITORING (CAM) PLAN BAGHOUSES FOR PARTICULATE (PM/PM10) CONTROL

I. Background

A. Emissions Unit

Description: Baghouses for PM/PM₁₀ Control (See CAM Applicability Table)
Identification: CE24 & CE25 (EP56), CE26 (EP57), CE27(EP62),
CE28 (EP63 & EP64), and CE37 (EP65)

B. Applicable Regulation, Emission Limit and Pre-CAM Monitoring Requirements

Regulation: See CAM Applicability Table
CAM Emission Limits: See CAM Applicability Table
Pre-CAM Monitoring: Weekly Visible Emissions Observations

C. Control Technology, Capture System, Bypass, Potential-to-Emit (PTE)

Controls: Baghouses
Capture System: Closed Dust Systems or Hood Collection Points
Bypass: None of these units are configured to allow bypass of the
control device
PTE Before Control: See CAM Applicability Table

II. Monitoring Approach

A. Indicators

Presence of visible emissions is the primary indicator for these sources. Visible emission are monitored on a daily basis. A summary of visual inspection frequency is provided in table D-2 of the application. Process operations will not produce conditions that adversely affect the function of the baghouses, so no process operation parameters will be monitored.

B. Measurement Approach & Frequency

A trained employee familiar with normal process operations and the appearance of the exhaust from each source is responsible for observing and recording visible emissions observations on a daily basis. Visible emissions observations shall be made and recorded in accordance with the requirements specified in 40 CFR 64.7(c). Visible emissions observations shall be conducted no earlier than one hour after sunrise to no later than one hour before sunset. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission sources during the observation. The observer shall select a position where the sun is not

directly in the observer's eyes. If observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. If on a given day the unit operations only during a period in which light conditions are insufficient to conduct a valid visible emission observation, as defined above, the permittee shall conduct a visible emission observation during the daylight hours the next day that it operates. When condensed water vapor is present within the plume, as it emerges from the emission outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emission outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.

C. Indicator Range

The presence of any visible emissions is considered to be an excursion and triggers response as identified below.

D. Performance Criteria

Data Representativeness: The presence of any visible emissions from a properly maintained and operating baghouse is an appropriate indicator that a bag rupture or leak is occurring and that corrective action is necessary.

QA/QC Practices and Criteria: Employees performing visible emissions observations are trained on observing the source under the appropriate conditions (e.g lighting, sun position, etc.) and have a detailed understanding of the proper operation of the affected sources. The records of the emissions observations are periodically reviewed by the facility environmental coordinator to verify that visible emissions monitoring documentation is being properly maintained.

III. Response to Excursions

Upon observing visible emissions, an operator will check the air pulsing system, and the baghouse housing. If these checks do not allow the operator to correct the visible emissions, the Maintenance Department will be notified immediately. The baghouse will be shut down immediately or a maintenance inspection will be initiated within 12 hours of the observation and the necessary repairs will be made as soon as judged practical by facility management and environmental staff.

Justification

I. Background

The Pollutant Specific Emission Units are baghouses in place for particulate matter control.

II. Rationale for Section of Performance Indicators

When a particulate matter-laden exhaust gas stream passes through the baghouse filter bags, the particulate matter is retained on the “dirty” side of the bags while the clean air passes through the bag filters and out the exhaust stack. On a timed sequence, the particulate is knocked off the bags. The collected dust drops into a hopper, bin, or screw conveyor and is returned to the process. When a bag wears through, tears or a seal is loose, a fine amount of visible emission is the first evidence of a malfunction.

III. Rationale for Selection of Indicator Ranges

Since the opacity limits on these sources range between 7% to 40%, the presence of any visible emission is judged as the most conservative indicator applicable to all of the facility’s baghouses. The facility’s performance testing experience with these sources suggests that a lack of visible emissions to be a representative indicator that the applicable particulate matter grain loading and mass emission limitations are also being met.

Appendix B – NSPS and NESHAP links

40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-OOO>

40 CFR 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-JJJJ>

40 CFR 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ>