PUBLIC NOTICE

The Iowa Department of Natural Resources (DNR) is proposing to renew the Title V Operating Permit for United States Gypsum Co. – Sperry. This facility is located at 13425 210th Street, Mediapolis, IA 52637. DNR is currently reviewing an application for renewal submitted by United States Gypsum Co. - Sperry to operate their existing gypsum products facility.

United States Gypsum Co. - Sperry is required to obtain a Title V Operating Permit pursuant to 567 Iowa Administrative Code (IAC) 24.101. This facility has the potential to emit the following air pollutants annually:

PM-2.5 (particulate matter 2.5 microns or less in diameter): 202.32 tons
PM-10 (particulate matter ten microns or less in diameter): 202.32 tons
Particulate Matter: 223.51 tons
Sulfur Dioxide: 1.79 tons
Nitrogen Oxides: 175.53 tons
Volatile Organic Compounds: 99.41 tons
Carbon Monoxide: 171.90 tons
Lead: 0.00 tons
Hazardous Air Pollutants: 15.03 tons

Based on the information provided in the Title V Operating Permit renewal application, the DNR has made an initial determination that the facility meets all the applicable criteria for the issuance of an operating permit specified in 567 IAC 24.107.

A copy of the Public Notice is available for public inspection at the:

Mediapolis Public Library
128 N. Orchard Street
Mediapolis, IA 52637
Phone: 319-394-3895

These documents are also available on the Air Quality Bureau's website at:

www.iowadnr.gov/titlev-draft

For additional information or for a copy of the draft permit or fact sheet contact:

Derek Wedemeier
Iowa Department of Natural Resources - Air Quality Bureau
6200 Park Ste #200
Des Moines, Iowa 50321
Phone: (515) 725-9520
E-mail: Derek.Wedemeier@dnr.iowa.gov

A complete record of the permit review, including the renewal application and the draft permit, is available for public inspection Monday-Friday, 8:00 a.m. - 4:30 p.m., at the DNR address shown above.

The public comment period for the draft permit will run from May 7, 2026 through June 6, 2026. During the public comment period, anyone may submit written comments on the permit. Mail signed comments to Derek Wedemeier at the DNR address shown above. The beginning date of this public comment period also serves as the beginning of the U.S. Environmental Protection Agency's (EPA) 45-day review period, provided the EPA does not seek a separate review period.

Written requests for a public hearing concerning the permit may also be submitted during the comment period. Any hearing request must state the person's interest in the subject matter, and the nature of the issues proposed to be raised at the hearing. DNR will hold a public hearing upon finding, on the basis of requests, a significant degree of relevant public interest in a draft permit. Mail hearing requests to Derek Wedemeier at the DNR address shown above.

DNR will keep a record of the issues raised during the public participation process, and will prepare written responses to all comments received. The comments and responses will be compiled into a responsiveness summary document. After the close of the public comment period, DNR will make a final decision on the renewal application. The responsiveness summary and the final permit will be available to the public upon request.

Individuals with disabilities or limited English proficiency are encouraged to participate in all DNR activities, including submitting public comments. If a reasonable accommodation or language services are needed to participate, contact the Air Quality Bureau staff member listed or Relay Iowa TTY Service at 800-735-7942 in advance to advise them of your specific needs. DNR's language access and disability nondiscrimination plans are available at https://www.iowadnr.gov/about/nondiscrimination-accessibility-language-access.

Iowa Department of Natural Resources
Draft Title V Operating Permit

Name of Permitted Facility: United States Gypsum Co. - Sperry
Facility Location: 13425 210th Street, Mediapolis, IA 52637
Air Quality Operating Permit Number: 03-TV-012R4
Expiration Date: **DATE**

Permit Renewal Application Deadline: **DATE**

EIQ Number: 92-5176
Facility File Number: 29-06-001

Responsible Official
Name: Michael Ensminger
Title: Plant Manager
Mailing Address: 13425 210th Street, Mediapolis, IA 52637
Phone #: (319) 394-2443

Permit Contact Person for the Facility
Name: Drew Hostetter
Title: Continuous Improvement/Quality Manager
Mailing Address: 13425 210th Street, Mediapolis, IA 52637
Phone #: (319) 394-2469

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

For the Director of the Department of Natural Resources

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Corey McCoid, Supervisor of Air Operating Permits Section Date

Table of Contents

Abbreviations

acfm.....actual cubic feet per minute
CFR.....Code of Federal Regulation
CE .....control equipment
CEM.....continuous emission monitor
^{o}F.....degrees Fahrenheit
EIQ.....emissions inventory questionnaire
EP.....emission point
EU .....emission unit
gr/dscf .....grains per dry standard cubic foot
IAC.....Iowa Administrative Code
IDNR.....Iowa Department of Natural Resources
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
$PM_{2.5}$ .....particulate matter 2.5 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: United States Gypsum Co. - Sperry
Permit Number: 03-TV-012R4

Facility Description: Gypsum Products Manufacturing (SIC 3275)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-01	EU-01	#1 Kettle	97-A-1027
EP-04	EU-04	#4 Kettle	88-A-192-S3
EP-05	EU-05	#3 Roller Grinding Mill	88-A-193-S1
EP-06	EU-06	#4 Gypsum Calcining Kettle	88-A-194-S3
EP-07	EU-07A	#1 Roller Grinding Mill	02-A-739-S1
	EU-07B	#2 Roller Grinding Mill	
EP-08	EU-08	Cooling Belt Conveyor	02-A-740-S3
EP-09	EU-09A	Rock Dryer Burner	87-A-146-S3
	EU-09B	Gypsum Ore Rotary Dryer	
EP-10	EU-10	Stucco Storage Bins	02-A-741
EP-11	EU-11	#1 Board Kiln	81-A-072-S10
EP-12	EU-12	#1 End Saw	02-A-742
EP-13	EU-13	#2 End Saw	87-A-147-S2
EP-14	EU-14	#2 Board Kiln	88-A-190-S12
EP-15A	EU-15A	#1 Mixer	04-A-611-S1
EP-17	EU-17	#2 Stucco Storage Bin	88-A-196-S2
EP-18	EU-18A	#2 Stucco System	88-A-195-S4
	EU-18B	#2 Stucco Mixer	
EP-20	EU-20	Gypsum Rock Storage Pile	-
EP-21	EU-21	Gypsum Rock Stock Pile	-
EP-22	EU-22	Cement Rock Storage Pile	-
EP-23	EU-23	Synthetic Gypsum Storage Pile	-
EP-28	EU-28	Rock Crusher	96-A-363-S1
EP-29	EU-29	#4 Kettle Hot Pit	96-A-892-S3
EP-30	EU-30A	#1 Calcining Kettle (MBR Kettle)	97-A-1026-S2
	EU-30B	#1 Kettle Hot Pit	
EP-32	EU-32	Unprocessed Waste Wallboard Pile	-
EP-33	EU-33	Processed Waste Wallboard Storage Pile	-
EP-34	EU-34	#1 Landplaster Storage Bin	01-A-361
EP-35	EU-35	Mine Emergency Hoist	-
EP-36	EU-36	Diesel Fire Pump	-
EP-47	EU-47	Dunnage Processing	02-A-362
EP-49	EU-49	FST System	04-A-612-S1
EP-50	EU-50	LPG Generator	-
EP-56	EU-56	Office Emergency Generator	-

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-60	EU-60	#2 Kettle/Calciner	15-A-558-S2
EP-61	EU-61	Air Slide	19-A-242
EP-70	EU-70	#2S Kettle/Calciner	19-A-241
EP-74	EU-74	#3N Kettle/Calciner	25-A-049
EP-75	EU-75	#3S Kettle/Calciner	25-A-050
EP-B8	EU-B8	500 Gallon Gasoline Tank	-

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-19B	#2 Landplaster Receiving
EU-19C	#1 Ball Mill
EU-19D	#2 Ball Mill
EU-19F	#1 Stucco Bin
EU-19G	Stucco Loading System
EU-40	75 Small Natural Gas Heaters
EU-51A	Bin Vent #1
EU-51B	Bin Vent #2
EU-B1	3000 Gallon #2 Diesel Tank
EU-B9	500 Gallon Used Oil Tank
EU-B10	5000 Gallon Hydraulic Oil Tank
EU-B11	10,000 Gallon #2 Fuel Oil Tank
EU-B14	1600 Gallon Ethylene Glycol Tank
EU-B15	1600 Gallon Ethylene Glycol Tank

Insignificant Activities Equipment List (Small Unit Exemption) [1]

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-16A	C-Belt Conveyor
EU-16B	C-Belt Conveyor
EU-52	125 Bulk Starch Silo
EU-53	Wet Starch Filter Receiver
EU-54	Ball Mill
EU-55	Landplaster Feed Bin
EU-57	Line #2 Starch Receiver
EU-58	Line #1 HRA
EU-59	Line #1 USG 95
EU-62	Line #2 Cerelose Bulk Bag Unloader Dust Collector
EU-63	Type 4 Vermiculite Bulk Unloader Dust Collector
EU-64	Type 5 Vermiculite Bulk Unloader Dust Collector
EU-65	Type 4 Vermiculite Receiver Bin
EU-66	Type 5 Vermiculite Receiver Bin
EU-67	Line #1 Cerelose Bulk Bag Unloader Dust Collector
EU-68	Line #1 LC211 Starch Unloader Dust Collector
EU-69	HRA2 Sugar Unloader Dust Collector

[1] Emission Units qualify for Small Unit Exemption under 567 IAC 22.1(2)"w". Records shall be kept in accordance with 567 IAC 22.1(2)"w"(3).

II. Plant-Wide Conditions

Facility Name: United States Gypsum Co. - Sperry
Permit Number: 03-TV-012R4

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

Permit Duration

The term of this permit is: Five (5) years from permit issuance
Commencing on: **DATE**
Ending on: **DATE**

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

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

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

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

Particulate Matter:
No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed on or after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.
For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from the equation provided in 23.3(2)"a"(2) 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: United States Gypsum Co. - Sperry
Permit Number: 03-TV-012R4

Emission Point ID Number: EP-01

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-01	#1 Kettle	NA	Natural Gas	15 MMBtu/hr*	97-A-1027

* Three burners at 5 MMBtu/hr each

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 20 %
Authority for Requirement: DNR Construction Permit 97-A-1027
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 97-A-1027
567 IAC 23.3(2)"a"

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

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

Stack Height, (ft, from the ground): 96.7
Stack Opening, (inches, dia.): 30
Exhaust Flow Rate (scfm): 3,300
Exhaust Temperature (°F): 550
Discharge Style: NA
Authority for Requirement: DNR Construction Permit 97-A-1027

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

Monitoring Requirements

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

Opacity:

Check emissions weekly during operation of the unit. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use "no visible emissions" as an action level. If an emission, other than steam is identified, corrective action will be taken. If after corrective action, visible emissions remain, a method 9 observation will be conducted. If the opacity is at or under the indicator opacity then an action plan will be made to correct the issue during the first available maintenance period. If an opacity >20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. The opacity exceedance will be reported to the IDNR only if the opacity limit has been exceeded or if corrective action fails to get the opacity below the indicator opacity.

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

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

Authority for Requirement: 567 IAC 24.108(14)

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-04

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-04	#4 Kettle	NA	Natural Gas	30 MMBtu/hr	88-A-192-S3

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40 % (1)
Authority for Requirement: DNR Construction Permit 88-A-192-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.6 lb/hr
Authority for Requirement: DNR Construction Permit 88-A-192-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.6 lb/hr, 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 88-A-192-S3
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppm_v
Authority for Requirement: DNR Construction Permit 88-A-192-S3
567 IAC 23.3(3)"e"

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits:

A. This emission unit shall be limited to the use of natural gas only.

Authority for Requirement: DNR Construction Permit 88-A-192-S3

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

Stack Height, (ft, from the ground): 105
Stack Opening, (inches, dia.): 28
Exhaust Flow Rate (scfm): 6,850
Exhaust Temperature (°F): 600
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 88-A-192-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 24.108(3)

Emission Point ID Number: EP-05

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-05	#3 Roller Grinding Mill	CE-05: Baghouse	Gypsum	45 tons/hr	88-A-193-S1

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 7 %
Authority for Requirement: DNR Construction Permit 88-A-193-S1
567 IAC 23.1(2)"bbb"
40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.95 lb/hr
Authority for Requirement: DNR Construction Permit 88-A-193-S1

Pollutant: Particulate Matter (PM) – Federal
Emission Limit(s): 0.022 gr/dscf
Authority for Requirement: DNR Construction Permit 88-A-193-S1
567 IAC 23.1(2)"bbb",
40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM) – State
Emission Limit(s): 0.95 lb/hr
Authority for Requirement: DNR Construction Permit 88-A-193-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.

NSPS Applicability:
This emission unit is subject to NSPS Subparts OOO Standards of Performance for Nonmetallic Mineral Processing Plants (§60.670). Subject to the General Provisions of Subpart A.

Authority for Requirement: DNR Construction Permit 88-A-193-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): 105
Stack Opening, (inches, dia.): 16
Exhaust Flow Rate (scfm): 5,048
Exhaust Temperature (°F): 170
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 88-A-193-S1

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

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

Opacity:
Check emissions weekly during operation of the unit. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use "no visible emissions" as an action level. If an emission, other than steam is identified, corrective action will be taken. If after corrective action, visible emissions remain, a method 9 observation will be conducted. If the opacity is at or under the indicator opacity then an action plan will be made to correct the issue during the first available maintenance period. If an opacity >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 the observation of visible emissions. The opacity exceedance will be reported to the IDNR only if the opacity limit has been exceeded or if corrective action fails to get the opacity below the indicator opacity.

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

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

Authority for Requirement: 567 IAC 24.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-06

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-06	#4 Gypsum Calcining Kettle	CE-06: Baghouse	Ore	56 tons/hr	88-A-194-S3

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 10%
Authority for Requirement: DNR Construction Permit 88-A-194-S3
567 IAC 23.1(2)"ppp",
40 CFR 60 Subpart UUU

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 2.58 lb/hr
Authority for Requirement: DNR Construction Permit 88-A-194-S3

Pollutant: Particulate Matter (PM) - Federal
Emission Limit(s): 0.040 gr/dscf
Authority for Requirement: DNR Construction Permit 88-A-194-S3
567 IAC 23.1(2)"ppp",
40 CFR Subpart UUU

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 2.58 lb/hr
Authority for Requirement: DNR Construction Permit 88-A-194-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.

NSPS Applicability:
This emission unit is subject to Subparts A (General Provisions; 40 CFR §60.1 – 40 CFR §60.19) and UUU (Standards of Performance for Calciners and Dryers in Mineral Industries; 40 CFR §60.730 – 40 CFR §60.737) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR Construction Permit 88-A-194-S3
567 IAC 23.1(2)"ppp",
40 CFR 60 Subpart UUU

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

Stack Height, (ft, from the ground): 105
Stack Opening, (inches, dia.): 30
Exhaust Flow Rate (scfm): 12,000
Exhaust Temperature (°F): 220
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 88-A-194-S3

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

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

Stack Testing:

Pollutant - PM
Stack Test to be Completed by (date) – within 3.5 years of permit issuance
Test Method - 40 CFR 60, Appendix A, Method 5
Authority for Requirement – 567 IAC 24.108(14)

Pollutant – PM_{10}
Stack Test to be Completed by (date) – within 3.5 years of permit issuance
Test Method - 40 CFR 51, Appendix M, Method 201A with 202
Authority for Requirement – 567 IAC 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-07

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-07A	#1 Roller Grinding Mill	CE-07: Baghouse	Gypsum	25 tons/hr	02-A-739-S1
EU-07B	#2 Roller Grinding Mill		Gypsum	25 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 02-A-739-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.02 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-739-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.02 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-739-S1
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.

Operating Limits:

A. All control equipment shall be maintained according to the manufacturer's specifications.

Reporting & Recordkeeping:

A. The owner or operator shall maintain a record of all inspections of the control equipment. The owner or operator shall document the results of the inspections and note any repairs that were the result of the inspections.

Authority for Requirement: DNR Construction Permit 02-A-739-S1

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

Stack Height, (ft, from the ground): 91
Stack Opening, (inches, dia.): 17.5
Exhaust Flow Rate (scfm): 4,000
Exhaust Temperature (°F): 170
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 02-A-739-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.

Stack Testing:

Pollutant – Particulate Matter (PM)
Stack Test to be Completed by (date) – within 3.5 years of permit issuance
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 24.108(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** ☒

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-08

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-08	Cooling Belt Conveyor	CE-08: Baghouse	Stucco	70 tons/hr	02-A-740-S3

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40 % (1)
Authority for Requirement: DNR Construction Permit 02-A-740-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.56 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-740-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.56 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-740-S3
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 81
Stack Opening, (inches, dia.): 20
Exhaust Flow Rate (scfm): 4,900
Exhaust Temperature (°F): 195
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 02-A-740-S3

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

Monitoring Requirements

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

Stack Testing:

Pollutant - PM

Stack Test to be Completed by (date) – within 3.5 years of permit issuance

40 CFR 60, Appendix A, Method 5

40 CFR 51, Appendix M, Method 202

Authority for Requirement – 567 IAC 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-09

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-09B	Gypsum Ore Rotary Dryer	CE-09: Baghouse	Gypsum	110 tons/hr	87-A-146-S3
EU-09A	Rock Dryer Burner		Natural Gas	30.1 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): 10 %
Authority for Requirement: DNR Construction Permit 87-A-146-S3
567 IAC 23.1(2)"ppp",
40 CFR 60 Subpart UUU

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 4.8 lb/hr
Authority for Requirement: DNR Construction Permit 87-A-146-S3

Pollutant: Particulate Matter (PM) – Federal
Emission Limit(s): 0.025 gr/dscf
Authority for Requirement: DNR Construction Permit 87-A-146-S3
567 IAC 23.1(2)"ppp",
40 CFR 60 Subpart UUU

Pollutant: Particulate Matter (PM) – State
Emission Limit(s): 4.8 lb/hr
Authority for Requirement: DNR Construction Permit 87-A-146-S3

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.19 lb/hr, 500 ppmv
Authority for Requirement: DNR Construction Permit 87-A-146-S3
567 IAC 23.3(3)"e"

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

Operating Limits:

A. This Dryer shall only use Natural Gas as a fuel.

Reporting & Recordkeeping:

A. The owner or operator shall maintain a record of all inspections of the control equipment.
B. The owner or operator shall document the results of the inspections and note any repairs that were the result of the inspections.

Authority for Requirement: DNR Construction Permit 87-A-146-S3

NSPS Applicability:

This emission unit is subject to Subparts A (General Provisions; 40 CFR §60.1 – 40 CFR §60.19) and UUU (Standards of Performance for Calciners and Dryers in Mineral Industries; 40 CFR §60.730 – 40 CFR §60.737) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR Construction Permit 87-A-146-S3
567 IAC 23.1(2)"ppp",
40 CFR 60 Subpart UUU

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 120
Stack Opening, (inches, dia.): 41
Exhaust Flow Rate (scfm): 22,400
Exhaust Temperature (°F): 189
Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permit 87-A-146-S3

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

Monitoring Requirements

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

Stack Testing:

Pollutant - PM
Stack Test to be Completed by (date) – within 3.5 years of permit issuance
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 24.108(14)

Pollutant – PM_{10}
Stack Test to be Completed by (date) – within 3.5 years of permit issuance
Test Method - 40 CFR 51, Appendix M, Method 201A with 202
Authority for Requirement – 567 IAC 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-10 (Vented Internally)

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10	Stucco Storage Bins (4)	CE-10: Baghouse	Stucco	70 tons/hr	02-A-741

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-741
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.23 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-741

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.23 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-741
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): NA (Not vented to atmosphere)
Stack Opening, (inches, dia.): NA
Exhaust Flow Rate (scfm): 4 conveyors – 900 scfm each
Exhaust Temperature (°F): Ambient
Discharge Style: NA
Authority for Requirement: DNR Construction Permit 02-A-741

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-11

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-11	#1 Board Kiln	NA	Natural Gas	110 MMBtu/hr	81-A-072-S10
			Line Speed	184.4 ft/min	
			Siloxane	350 lb/hr	
			Wax	4,800 lb/hr	
			Combined Interior Mat	4,420 lb/hr	
			Combined Exterior Mat	4,020 lb/hr	

Applicable Requirements

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

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

Specialty Board Production with Siloxane/Combined Interior Mat Application or with Siloxane/Combined Exterior Mat Application

Pollutant: Opacity
Emission Limit(s): 40 % (1)
Authority for Requirement: DNR Construction Permit 81-A-072-S10
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 16.26 lb/hr
Authority for Requirement: DNR Construction Permit 81-A-072-S10

Pollutant: Particulate Matter (PM)
Emission Limit(s): 16.26 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 81-A-072-S10
567 IAC 23.3(2)"a"

Specialty Board Production with Wax Application

Pollutant: Opacity
Emission Limit(s): 40%(2)
Authority for Requirement: DNR Construction Permit 81-A-072-S10
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 5.0 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 81-A-072-S10
567 IAC 23.3(2)"a"

Regular Board Production
Pollutant: Opacity
Emission Limit(s): 40%[(3)]
Authority for Requirement: DNR Construction Permit 81-A-072-S10
567 IAC 23.3(2)"d"

[(3)]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): 3.20 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 81-A-072-S10
567 IAC 23.3(2)"a"

Specialty Board Production and Regular Board Production

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppm_v
Authority for Requirement: DNR Construction Permit 81-A-072-S10
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NOx)
Emission Limit(s): 16.5 lb/hr
Authority for Requirement: DNR Construction Permit 81-A-072-S10

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 15.5 lb/hr
Authority for Requirement: DNR Construction Permit 81-A-072-S10

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 8.8 lb/hr[(4)]
Authority for Requirement: DNR Construction Permit 81-A-072-S10

Pollutant: Formaldehyde
Emission Limit(s): 0.59lb/hr[(4)]
Authority for Requirement: DNR Construction Permit 81-A-072-S10

Pollutant: Total HAP
Emission Limit(s): 0.79lb/hr[(4)]
Authority for Requirement: DNR Construction Permit 81-A-072-S10

[4]The emission limit does not include VOC and HAP emissions due to the application of Siloxane, Combined Interior Mat, Combined Exterior Mat, or Wax. Compliance with the limit shall be demonstrated by measuring the VOC and HAP emissions from wallboard that does not contain Siloxane, Combined Interior Mat, Combined Exterior Mat, or Wax.

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.

General Requirements

A. The owner or operator shall use natural gas as the only fuel for the #1 Board Drying Kiln (EU-11).
    (1) The owner or operator shall maintain a record of the type of fuel burned in the #1 Board Drying Kiln (EU-11).
    (2) Prior to burning any other fuel in this unit, the owner or operator shall apply for and obtain an amended construction permit from the Department.

B. The specialty board production in the #1 Board Drying Kiln (EU-11) shall be restricted to the use of the following additives: Siloxane, Wax, Combined Interior Mat, and Combined Exterior Mat.
    (1) The owner or operator shall maintain records of the additives used in the specialty board production at Plant No. 29-06-001.

C. Within 30 days of Wax initial use, the owner or operator shall notify the Department of the date of the initial use of Wax as a mold resistant material.
    (1) Per construction permit 81-A-072-S10 condition 12D, the owner or operator shall send the notification required in Permit Condition C to the Compliance Unit Supervisor at the Air Quality Bureau.

D. The owner or operator shall only use the coated glass mat in conjunction with the regular glass mat. The owner or operator shall not use regular glass mat on both sides of a product.
    (1) The owner or operator shall develop and maintain onsite written procedures to ensure coated glass mat is only used in conjunction with the regular mat.

E. Prior to using any material in the #1 Board Drying Kiln (EU-11) that exceeds the content limits in Permit Conditions R (Siloxane), T (Combined Interior Mat), V. (Combined Exterior Mat), and X (Wax), as applicable, the owner or operator shall apply for and obtain an amended construction permit from the Department.

F. The owner or operator shall maintain on-site manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for the materials used in the #1 Board Drying Kiln (EU-11).

Compliance Stack Testing Requirements

G. Any required compliance stack testing on EP-11 to demonstrate compliance with the maximum VOC, formaldehyde, and Total HAP content limits in Permit Conditions R (Siloxane), T (Combined Interior Mat), and V. (Combined Exterior Mat) shall be conducted as indicated in Permit Condition H.

H. The owner or operator shall conduct the following material specific testing during any required compliance stack testing on EP-11:

(1) Regular (Process/Combustion):
    a. The owner or operator shall conduct stack testing to determine total emissions from process and natural gas combustion.
(2) MT (Siloxane):
    a. The owner or operator shall conduct stack testing to determine total emissions from process, natural gas combustion, and the use of Siloxane.
(3) Combined Interior Coated Mat:
    a. The owner or operator shall conduct stack testing to determine total emissions from process, natural gas combustion, and the use of Siloxane, regular glass material, and interior coated glass material.
(4) Combined Exterior Coated Mat:
    a. The owner or operator shall conduct stack testing to determine total emissions from process, natural gas combustion, and the use of Siloxane, regular glass material, and exterior coated glass material.

I. Within 60 days from achieving the maximum production rate using Wax as a mold resistant material or within 180 days from Wax initial use, the owner or operator shall conduct compliance stack testing on EP-11 to demonstrate compliance with the maximum VOC, formaldehyde, and Total HAP content limits in Permit Condition X. (Wax).

J. The owner or operator shall conduct the following material specific testing during the compliance stack testing required in Permit Condition I.
(1) MT (Wax):
    a. The owner or operator shall conduct stack testing to determine total emissions from process, natural gas combustion, and the use of Wax.

K. The owner or operator shall comply with the stack testing notification and reporting requirements specified in construction permit 81-A-072-S10 conditions 12.A.(4) and 12.B.(5) for the stack tests required in this permit.

L. The owner or operator shall maintain on-site copy of the most recent stack test reports that demonstrated compliance with the maximum VOC, formaldehyde, and Total HAP content limits in Permit Conditions R (Siloxane), T (Combined Interior Mat), V. (Combined Exterior Mat), and X (Wax). At a minimum, the reports shall include:
(1) The VOC, formaldehyde, and Total HAP emissions, in pounds/hour, observed during testing.
(2) The Siloxane, Combined Interior Mat, Combined Exterior Mat, and Wax throughputs, in pounds/hour, observed during testing.

M. Within 60 days from Department approval of the compliance testing results, the owner or operator shall perform detailed VOC, formaldehyde, and Total HAP content calculations as specified in Permit Conditions N, O, P, and Q using the Department approved stack test data.
(1) The owner or operator shall retain this information onsite and make it available for Department inspection.

N. To determine the VOC, formaldehyde, and Total HAP content of Siloxane, the owner or operator shall use the following equations:
(1) Siloxane VOC Content (lb VOC/lb Siloxane) = [(MT (Siloxane) VOC average test results, in pounds/hour) – (Regular (Process/Combustion) VOC average test results, in pounds/hour)] ÷ Siloxane average throughput during the compliance test, in pounds/hour.

(2) Siloxane Formaldehyde Content (lb Formaldehyde/lb Siloxane) = [(MT (Siloxane) Formaldehyde average test results, in pounds/hour) – (Regular (Process/Combustion) Formaldehyde average test results, in pounds/hour)] ÷ Siloxane average throughput during the compliance test, in pounds/hour.

(3) Siloxane Total HAP Content (lb Total HAP/lb Siloxane) = [(MT (Siloxane) Total HAP average test results, in pounds/hour) – (Regular (Process/Combustion) Total HAP average test results, in pounds/hour)] ÷ Siloxane average throughput during the compliance test, in pounds/hour.

(4) The owner or operator shall maintain a record of the VOC, formaldehyde, and Total HAP content in pounds per pound of Siloxane used in the #1 Board Drying Kiln (EU-11).

O. To determine the VOC, formaldehyde, and Total HAP content of Combined Interior Mat, the owner or operator shall use the following equations:

(1) Combined Interior Mat VOC Content (lb VOC/lb Combined Interior Mat) = [(Combined Interior Coated Mat VOC average test results, in pounds/hour) – (MT (Siloxane) VOC average test results, in pounds/hour)] ÷ Combined Interior Mat average throughput during the compliance test, in pounds/hour.

(2) Combined Interior Mat Formaldehyde Content (lb Formaldehyde/lb Combined Interior Mat) = [(Combined Interior Coated Mat Formaldehyde average test results, in pounds/hour) – (MT (Siloxane) Formaldehyde average test results, in pounds/hour)] ÷ Combined Interior Mat average throughput during the compliance test, in pounds/hour.

(3) Combined Interior Mat Total HAP Content (lb Total HAP/lb Combined Interior Mat) = [(Combined Interior Coated Mat Total HAP average test results, in pounds/hour) – (MT (Siloxane) Total HAP average test results, in pounds/hour)] ÷ Combined Interior Mat average throughput during the compliance test, in pounds/hour.

(4) The owner or operator shall maintain a record of the VOC, formaldehyde, and Total HAP content in pounds per pound of Combined Interior Mat used in the #1 Board Drying Kiln (EU-11).

P. To determine the VOC, formaldehyde, and Total HAP content of Combined Exterior Mat, the owner or operator shall use the following equations:

(1) Combined Exterior Mat VOC Content (lb VOC/lb Combined Exterior Mat) = [(Combined Exterior Coated Mat VOC average test results, in pounds/hour) – (MT (Siloxane) VOC average test results, in pounds/hour)] ÷ Combined Exterior Mat average throughput during the compliance test, in pounds/hour.

(2) Combined Exterior Mat Formaldehyde Content (lb Formaldehyde/lb Combined Exterior Mat) = [(Combined Interior Coated Mat Formaldehyde average test results, in pounds/hour) – (MT (Siloxane) Formaldehyde average test results, in pounds/hour)] ÷ Combined Exterior Mat average throughput during the compliance test, in pounds/hour.

(3) Combined Exterior Mat Total HAP Content (lb Total HAP/lb Combined Exterior Mat) = [(Combined Exterior Coated Mat Total HAP average test results, in pounds/hour) – (MT (Siloxane) Total HAP average test results, in pounds/hour)] ÷ Combined Exterior Mat average throughput during the compliance test, in pounds/hour.

(4) The owner or operator shall maintain a record of the VOC, formaldehyde, and

Total HAP content in pounds per pound of Combined Exterior Mat used in the #1 Board Drying Kiln (EU-11).

Q. To determine the VOC, formaldehyde, and Total HAP content of Wax, the owner or operator shall use the following equations:
   (1) Wax VOC Content (lb VOC/lb Wax) = [(MT (Wax) VOC average test results, in pounds/hour) – (Regular (Process/Combustion) VOC average test results, in pounds/hour)] ÷ Wax average throughput during the compliance test, in pounds/hour.
   (2) Wax Formaldehyde Content (lb Formaldehyde/lb Wax) = [(MT (Wax) Formaldehyde average test results, in pounds/hour) – (Regular (Process/Combustion) Formaldehyde average test results, in pounds/hour)] ÷ Wax average throughput during the compliance test, in pounds/hour.
   (3) Wax Total HAP Content (lb Total HAP/lb Wax) = [(MT (Wax) Total HAP average test results, in pounds/hour) – (Regular (Process/Combustion) Total HAP average test results, in pounds/hour)] ÷ Wax average throughput during the compliance test, in pounds/hour.
   (4) The owner or operator shall maintain a record of the VOC, formaldehyde, and Total HAP content in pounds per pound of Wax used in the #1 Board Drying Kiln (EU-11).

Material Content Limits and Usage Requirements

Siloxane

R. The owner or operator shall use Siloxane in the #1 Board Drying Kiln (EU-11) with the following characteristics.
   (1) The VOC content shall not exceed 0.03914 pounds per pound of Siloxane.
   (2) The formaldehyde content shall not exceed 0.00289 pounds per pound of Siloxane.
   (3) The Total HAP content shall not exceed 0.00289 pounds per pound of Siloxane.

S. The total amount of Siloxane used in #1 Board Drying Kiln (EU-11) and #2 Board Drying Kiln (EU-14), combined, shall not exceed 832,000 pounds in any 12-month rolling period.
   (1) The owner or operator shall record the total pounds of Siloxane used in the #1 Board Drying Kiln (EU-11) and the #2 Board Drying Kiln (EU-14), combined, on a monthly basis.
   (2) The owner or operator shall calculate and record the total pounds of Siloxane used in the #1 Board Drying Kiln (EU-11) and the #2 Board Drying Kiln (EU-14), combined, on a rolling 12-month basis.

Combined (coated glass and regular glass) Interior Mat

T. The owner or operator shall use combined (coated glass and regular glass) interior mat in the #1 Board Drying Kiln (EU-11) with the following characteristics.
   (1) The VOC content shall not exceed 0.000351 pounds per pound of combined (coated glass and regular glass) interior mat.
   (2) The formaldehyde content shall not exceed 0.000292 pounds per pound of combined (coated glass and regular glass) interior mat.
   (3) The Total HAP content shall not exceed 0.000351 pounds per pound of combined

(coated glass and regular glass) interior mat.

U. The total amount of combined (coated glass and regular) interior mat used in the #1 Board Drying Kiln (EU-11) shall not exceed 1,320,000 pounds in any 12-month rolling period.
   (1) The owner or operator shall record the total pounds of combined (coated glass and regular glass) interior mat used in the #1 Board Drying Kiln (EU-11) on a monthly basis.
   (2) The owner or operator shall calculate and record the total pounds of combined (coated glass and regular glass) interior mat used in the #1 Board Drying Kiln (EU-11) on a rolling 12-month basis.

Combined (coated glass and regular glass) Exterior Mat

V. The owner or operator shall use combined (coated glass and regular glass) exterior mat in the #1 Board Drying Kiln (EU-11) with the following characteristics.
   (1) The VOC content shall not exceed 0.001384 pounds per pound of combined (coated glass and regular glass) exterior mat.
   (2) The formaldehyde content shall not exceed 0.001384 pounds per pound of combined (coated glass and regular glass) exterior mat.
   (3) The Total HAP content shall not exceed 0.001384 pounds per pound of combined (coated glass and regular glass) exterior mat.

W. The total amount of combined (coated glass and regular) exterior mat used in the #1 Board Drying Kiln (EU-11) shall not exceed 2,800,000 pounds in any 12-month rolling period.
   (1) The owner or operator shall record the total pounds of combined (coated glass and regular glass) exterior mat used in the #1 Board Drying Kiln (EU-11) on a monthly basis.
   (2) The owner or operator shall calculate and record the total pounds of combined (coated glass and regular glass) exterior mat used in the #1 Board Drying Kiln (EU-11) on a rolling 12-month basis.

Wax

X. The owner or operator shall use Wax in the #1 Board Drying Kiln (EU-11) with the following characteristics.
   (1) The VOC content shall not exceed 0.0014 pounds per pound of Wax.
   (2) The formaldehyde content shall not exceed 0.0001 pounds per pound of Wax.
   (3) The Total HAP content shall not exceed 0.0014 pounds per pound of Wax.

Y. The total amount of Wax used in the #1 Board Drying Kiln (EU-11) and the #2 Board Drying Kiln (EU-14), combined shall not exceed 6,000,000 pounds in any 12-month rolling period.
   (1) The owner or operator shall record the total pounds of Wax used in the #1 Board Drying Kiln (EU-11) and the #2 Board Drying Kiln (EU-14), combined, on a monthly basis.
   (2) The owner or operator shall calculate and record the total pounds of Wax used in the #1 Board Drying Kiln (EU-11) and the #2 Board Drying Kiln (EU-14), combined, on a rolling 12-month basis.

Authority for Requirement: DNR Construction Permit 81-A-072-S10

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 60
Stack Opening, (inches): 63 x 47
Exhaust Flow Rate (scfm): 76,700
Exhaust Temperature (°F): 210
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 81-A-072-S10

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

Monitoring Requirements

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

Compliance Demonstrations

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
PM[1,2]	Stack Testing[1, 2]	Initial[1, 2]	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M, Method 202
		One Time		
CO[1,2]	Stack Testing[1, 2]	Initial[1, 2]	1 hour	40 CFR 60, Appendix A, Method 10
		One Time		
VOC[3]	Stack Testing[3]	Initial[3]	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
		One Time		
HAP[3]	Stack Testing[3]	Initial[3]	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
		One Time		

[1]PM and CO initial testing to demonstrate compliance with the emission limits listed above for Specialty Board Production with Wax Application, and Specialty Board Production and Regular Production, respectively, shall be conducted one time within 60 days from achieving the maximum production rate using Wax as a mold resistant material or within 180 days from initial use of Wax as a mold resistant material.

[2]The owner or operator shall conduct the initial stack test ***either*** on both EP-11 (#1 Board Drying Kiln) and EP-14 (#2 Board Drying Kiln) ***or*** conduct representative testing on EP-14 to use the test results to fulfill the PM and CO test requirements for EP-11 during the usage of Wax as a mold resistant material.

[3]Initial testing to demonstrate compliance with the maximum VOC, formaldehyde, and Total HAP content limits in Condition X, above. (Wax) shall be conducted as indicated in Condition I, above. Prior to the compliance test using Wax, the owner or operator shall conduct a pretest survey using Method 207 (or other Department approved method) to determine the organic compounds present in the exhaust stream. Alternative approaches may be included

in the test protocol for Department approval. All compounds that test below the detection limit shall be assumed to be emitting at a rate equal to the Method 320 or 18 detection limits.

Authority for Requirement: 81-A-072-S10

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-12

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-12	#1 End Saw	CE-12: Baghouse	Gypsum Board	0.23 ton/hr	02-A-742

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-742
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.28 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-742

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.28 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-742
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 37
Stack Opening, (inches, dia.): 14.5
Exhaust Flow Rate (scfm): 5,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 02-A-742

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-13

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-13	#2 End Saw	CE-13: Baghouse	Gypsum Board	0.26 ton/hr	87-A-147-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 87-A-147-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.11 lb/hr
Authority for Requirement: DNR Construction Permit 87-A-147-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.11 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 87-A-147-S2
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 37
Stack Opening, (inches, dia.): 14.5
Exhaust Flow Rate (scfm): 3,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 87-A-147-S2

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-14

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14	#2 Kiln	NA	Natural Gas	100 MMBtu/hr	88-A-190-S12
			Mold Resistant	350 lb/hr	

Applicable Requirements

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

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

Specialty Board Production with Siloxane Application

Pollutant: Opacity
Emission Limit(s): 40 % (1)
Authority for Requirement: DNR Construction Permit 88-A-190-S12
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 20.28 lb/hr
Authority for Requirement: DNR Construction Permit 88-A-190-S12

Pollutant: Particulate Matter (PM)
Emission Limit(s): 20.28 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 88-A-190-S12
567 IAC 23.3(2)"a"

Specialty Board Production with Wax Application

Pollutant: Opacity
Emission Limit(s): 40%(2)
Authority for Requirement: DNR Construction Permit 88-A-190-S12
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 5.0 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 88-A-190-S12
567 IAC 23.3(2)"a"

Regular Board Production
Pollutant: Opacity
Emission Limit(s): 40%[3]
Authority for Requirement: DNR Construction Permit 88-A-190-S12
567 IAC 23.3(2)"d"

[3] 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): 3.20 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 88-A-190-S12
567 IAC 23.3(2)"a"

Specialty Board Production and Regular Board Production
Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppm_v
Authority for Requirement: DNR Construction Permit 88-A-190-S12

Pollutant: Nitrogen Oxides (NOx)
Emission Limit(s): 12.0lb/hr
Authority for Requirement: DNR Construction Permit 88-A-190-S12

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 8.0 lb/hr[4]
Authority for Requirement: DNR Construction Permit 88-A-190-S12

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 14.7 lb/hr
Authority for Requirement: DNR Construction Permit 88-A-190-S12

Pollutant: Formaldehyde
Emission Limit(s): 0.54 lb/hr[4]
Authority for Requirement: DNR Construction Permit 88-A-190-S12

Pollutant: Total HAP
Emission Limit(s): 0.72 lb/hr[4]
Authority for Requirement: DNR Construction Permit 88-A-190-S12

[4] The emission limit does not include VOC and HAP emissions due to the application of Siloxane or Wax. Compliance with the limit shall be demonstrated by measuring the VOC and HAP emissions from wallboard that does not contain Siloxane or Wax.

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.

General Requirements

A. The owner or operator shall use natural gas as the only fuel for the #2 Board Drying Kiln (EU-14).
    (1) The owner or operator shall maintain a record of the type of fuel burned in the #2 Board Drying Kiln (EU-14).
    (2) Prior to burning any other fuel in this unit, the owner or operator shall apply for and obtain an amended construction permit from the Department.

B. The specialty board production in the #2 Board Drying Kiln (EU-14) shall be restricted to the use of the following additives: Siloxane and Wax.
    (1) The owner or operator shall maintain records of the additives used in the specialty board production at Plant No. 29-06-001.

C. Within 30 days of Wax initial use, the owner or operator shall notify the Department of the date of the initial use of Wax as a mold resistant material.
    (1) Per Construction Permit 88-A-190-S12 Condition 12.D, the owner or operator shall send the notification required in Permit Condition C to the Compliance Unit Supervisor at the Air Quality Bureau.

D. Prior to using any material in the #2 Board Drying Kiln (EU-14) that exceeds the content limits in Permit Conditions O (Siloxane) or Q (Wax), as applicable, the owner or operator shall apply for and obtain an amended construction permit from the Department.

E. The owner or operator shall maintain on-site manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for the materials used in the #2 Board Drying Kiln (EU-14).

Compliance Stack Testing Requirements

F. Any required compliance stack testing on EP-14 to demonstrate compliance with the maximum VOC, formaldehyde, and Total HAP content limits in Permit Condition O (Siloxane) shall be conducted as indicated in Permit Condition G. The owner or operator may elect to use the test results from the #1 Board Drying Kiln (EU-11) to fulfill this test requirement and demonstrate compliance with the content limits.

G. The owner or operator shall conduct the following material specific testing during any required compliance stack testing on EP-14:
    (1) Regular (Process/Combustion):
        a. The owner or operator shall conduct stack testing to determine total emissions from process and natural gas combustion.
    (2) MT (Siloxane):
        a. The owner or operator shall conduct stack testing to determine total emissions from process, natural gas combustion, and the use of Siloxane.

H. Within 60 days from achieving the maximum production rate using Wax as a mold resistant material or within 180 days from Wax initial use, the owner or operator shall conduct compliance stack testing on EP-14 to demonstrate compliance with the maximum VOC, formaldehyde, and Total HAP content limits in Permit Condition Q.

(Wax). The owner or operator may elect to use the test results from the #1 Board Drying Kiln (EU-11) to fulfill this test requirement and demonstrate compliance with the content limits.

I. The owner or operator shall conduct the following material specific testing during the compliance stack testing required in Permit Condition H.
    (1) MT (Wax):
        a. The owner or operator shall conduct stack testing to determine total emissions from process, natural gas combustion, and the use of Wax.

J. The owner or operator shall comply with the stack testing notification and reporting requirements specified in Construction Permit 88-A-190-S12 Conditions 12.A.(4) and 12.B.(5) for the stack tests required in this permit.

K. The owner or operator shall maintain on-site copy of the most recent stack test reports that demonstrated compliance with the maximum VOC, formaldehyde, and Total HAP content limits in Permit Conditions 5.O (Siloxane) and Q (Wax). At a minimum, the reports shall include:
    (1) The VOC, formaldehyde, and Total HAP emissions, in pounds/hour, observed during testing.
    (2) The Siloxane and Wax throughputs, in pounds/hour, observed during testing.

L. Within 60 days from Department approval of the compliance testing results, the owner or operator shall perform detailed VOC, formaldehyde, and Total HAP content calculations as specified in Permit Conditions M and N using the Department approved stack test data.
    (1) The owner or operator shall retain this information onsite and make it available for Department inspection.

M. To determine the VOC, formaldehyde, and Total HAP content of Siloxane, the owner or operator shall use the following equations:
    (1) Siloxane VOC Content (lb VOC/lb Siloxane) = [(MT (Siloxane) VOC average test results, in pounds/hour) – (Regular (Process/Combustion) VOC average test results, in pounds/hour)] ÷ Siloxane average throughput during the compliance test, in pounds/hour.
    (2) Siloxane Formaldehyde Content (lb Formaldehyde/lb Siloxane) = [(MT (Siloxane) Formaldehyde average test results, in pounds/hour) – (Regular (Process/Combustion) Formaldehyde average test results, in pounds/hour)] ÷ Siloxane average throughput during the compliance test, in pounds/hour.
    (3) Siloxane Total HAP Content (lb Total HAP/lb Siloxane) = [(MT (Siloxane) Total HAP average test results, in pounds/hour) – (Regular (Process/Combustion) Total HAP average test results, in pounds/hour)] ÷ Siloxane average throughput during the compliance test, in pounds/hour.
    (4) The owner or operator shall maintain a record of the VOC, formaldehyde, and Total HAP content in pounds per pound of Siloxane used in the #2 Board Drying Kiln (EU-14).

N. To determine the VOC, formaldehyde, and Total HAP content of Wax, the owner or operator shall use the following equations:
    (1) Wax VOC Content (lb VOC/lb Wax) = [(MT (Wax) VOC average test results, in pounds/hour) – (Regular (Process/Combustion) VOC average test results, in pounds/hour)] ÷ Wax average throughput during the compliance test, in pounds/hour.

(2) Wax Formaldehyde Content (lb Formaldehyde/lb Wax) = [(MT (Wax) Formaldehyde average test results, in pounds/hour) – (Regular (Process/Combustion) Formaldehyde average test results, in pounds/hour)] ÷ Wax average throughput during the compliance test, in pounds/hour.
(3) Wax Total HAP Content (lb Total HAP/lb Wax) = [(MT (Wax) Total HAP average test results, in pounds/hour) – (Regular (Process/Combustion) Total HAP average test results, in pounds/hour)] ÷ Wax average throughput during the compliance test, in pounds/hour.
(4) The owner or operator shall maintain a record of the VOC, formaldehyde, and Total HAP content in pounds per pound of Wax used in the #2 Board Drying Kiln (EU-14).

Material Content Limits and Usage Requirements

Siloxane

O. The owner or operator shall use Siloxane in the #2 Board Drying Kiln (EU-14) with the following characteristics.
(1) The VOC content shall not exceed 0.03914 pounds per pound of Siloxane.
(2) The formaldehyde content shall not exceed 0.00289 pounds per pound of Siloxane.
(3) The Total HAP content shall not exceed 0.00289 pounds per pound of Siloxane.

P. The total amount of Siloxane used in #1 Board Drying Kiln (EU-11) and #2 Board Drying Kiln (EU-14), combined, shall not exceed 832,000 pounds in any 12-month rolling period.
(1) The owner or operator shall record the total pounds of Siloxane used in the #1 Board Drying Kiln (EU-11) and the #2 Board Drying Kiln (EU-14), combined, on a monthly basis.
(2) The owner or operator shall calculate and record the total pounds of Siloxane used in the #1 Board Drying Kiln (EU-11) and the #2 Board Drying Kiln (EU-14), combined, on a rolling 12-month basis.

Wax

Q. The owner or operator shall use Wax in the #2 Board Drying Kiln (EU-14) with the following characteristics.
(1) The VOC content shall not exceed 0.0014 pounds per pound of Wax.
(2) The formaldehyde content shall not exceed 0.0001 pounds per pound of Wax.
(3) The Total HAP content shall not exceed 0.0014 pounds per pound of Wax.

R. The total amount of Wax used in the #1 Board Drying Kiln (EU-11) and the #2 Board Drying Kiln (EU-14), combined shall not exceed 6,000,000 pounds in any 12-month rolling period.
(1) The owner or operator shall record the total pounds of Wax used in the #1 Board Drying Kiln (EU-11) and the #2 Board Drying Kiln (EU-14), combined, on a monthly basis.
(2) The owner or operator shall calculate and record the total pounds of Wax used in the #1 Board Drying Kiln (EU-11) and the #2 Board Drying Kiln (EU-14), combined, on a rolling 12-month basis.

Authority for Requirement: DNR Construction Permit 88-A-190-S12

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 57.5
Stack Opening, (inches): 76.5 x 56.4
Exhaust Flow Rate (scfm): 48,900
Exhaust Temperature (°F): 250
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 88-A-190-S12

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

Monitoring Requirements

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

Compliance Demonstrations

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
PM – State[(1)]	Stack Testing[(1)]	Initial[(1)]	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M, Method 202
		One Time		
CO[(1)]	Stack Testing[(1)]	Initial[(1)]	1 hour	40 CFR 60, Appendix A, Method 10
		One Time		
VOC[(2)]	Stack Testing[(2)]	Initial[(2)]	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
		One Time		
HAP[(2)]	Stack Testing[(2)]	Initial[(2)]	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
		One Time		

[(1)] PM and CO initial testing to demonstrate compliance with the emission limits listed above shall be conducted one time within 60 days from achieving the maximum production rate using Wax as a mold resistant material or within 180 days from initial use of Wax as a mold resistant material.

[(2)] Initial testing to demonstrate compliance with the maximum VOC, formaldehyde, and Total HAP content limits in Operating Condition Q above. (Wax) shall be conducted as indicated in Operating Condition H, above. Prior to the compliance test using Wax, the owner or operator shall conduct a pretest survey using Method 207 (or other Department approved method) to determine the organic compounds present in the exhaust stream. Alternative approaches may be included in the test protocol for Department approval. All compounds that test below the detection limit shall be assumed to be emitting at a rate equal to the Method 320 or 18 detection limits.

Authority for Requirement: 88-A-190-S12

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-15A (Vents Internally)

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-15A	#1 Mixer	CE-15A: Baghouse	Stucco	70 tons/hr	04-A-611-S1

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40 % (1)
Authority for Requirement: DNR Construction Permit 04-A-611-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-611-S1
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.

Operating Limits:

A. All control equipment shall be maintained according to the manufacturer's specifications.

Reporting & Recordkeeping:

A. The owner or operator shall maintain a record of all inspections of the control equipment. The owner or operator shall document the results of the inspections and note any repairs that were the result of the inspections.

Authority for Requirement: DNR Construction Permit 04-A-611-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): NA
Stack Opening, (inches, dia.): 5
Exhaust Flow Rate (scfm): 140
Exhaust Temperature (°F): 70
Discharge Style: Inside – Vent
Authority for Requirement: DNR Construction Permit 04-A-611-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-17

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-17	#2 Stucco Storage Bin	CE-17: Baghouse	Stucco	45 tons/hr	88-A-196-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 88-A-196-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.068 lb/hr
Authority for Requirement: DNR Construction Permit 88-A-196-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.068 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 88-A-196-S2
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 77.67
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 3,580
Exhaust Temperature (°F): 140
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 88-A-196-S2

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-18

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-18A	#2 Stucco System	CE-18: Baghouse	Stucco	45 tons/hr	88-A-195-S4
EU-18B	#2 Stucco Mixer				

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40 % (1)
Authority for Requirement: DNR Construction Permit 88-A-195-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.2 lb/hr
Authority for Requirement: DNR Construction Permit 88-A-195-S4

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.2 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 88-A-195-S4
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.

Operating Limits:

A. All control equipment shall be maintained according to the manufacturer's specifications.

Reporting & Recordkeeping:

A. The owner or operator shall maintain a record of all inspections of the control equipment.
B. The owner or operator shall document the results of the inspections and note any repairs that were the result of the inspections.

Authority for Requirement: DNR Construction Permit 88-A-195-S4

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

Stack Height, (ft, from the ground): 67.5
Stack Opening, (inches, dia.): 16
Exhaust Flow Rate (scfm): 2,900
Exhaust Temperature (°F): 95
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 88-A-195-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.

Stack Testing:

Pollutant - PM
Stack Test to be Completed by (date) – Within 3.5 years of permit issuance
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 24.108(14)

Pollutant – PM_{10}
Stack Test to be Completed by (date) – Within 3.5 years of permit issuance
Test Method - 40 CFR 51, Appendix M, Method 201A with 202
Authority for Requirement – 567 IAC 24.108(14)

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 24.108(3)

Emission Point ID Numbers: EP-20, EP-21, EP-22, EP-23

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EP-20	EU-20	Gypsum Rock Storage Pile	Gypsum	1,248,000 tons/yr	NA
EP-21	EU-21	Gypsum Rock Stock Pile	Gypsum	200,000 tons/yr	NA
EP-22	EU-22	Cement Rock Storage Pile	Cement Rock	350,000 tons/yr	NA
EP-23	EU-23	Synthetic Gypsum Storage Pile	Gypsum	100,000 tons/yr	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 24.108(3)

Emission Point ID Number: EP-28

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-28	Rock Crusher	CE-28: Dust Collector	Gypsum	160 tons/hr	96-A-363-S1

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 7 %
Authority for Requirement: DNR Construction Permit 96-A-363-S1
567 IAC 23.1(2)"bbb",
40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 2.83 lb/hr
Authority for Requirement: DNR Construction Permit 96-A-363-S1

Pollutant: Particulate Matter (PM) – Federal
Emission Limit(s): 0.022 gr/dscf
Authority for Requirement: DNR Construction Permit 96-A-363-S1
567 IAC 23.1(2)"bbb",
40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM) – State
Emission Limit(s): 2.83 lb/hr
Authority for Requirement: DNR Construction Permit 96-A-363-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.

NSPS Applicability:
This emission unit is subject to the requirements of NSPS Subparts OOO, Standards of Performance for Nonmetallic Mineral Processing Plants, and A, General Provisions.
Authority for Requirement: DNR Construction Permit 96-A-363-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): 82.3
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 15,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 96-A-363-S1

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

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

Opacity:
Check emissions weekly during operation of the unit. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use "no visible emissions" as an action level. If an emission, other than steam is identified, corrective action will be taken. If after corrective action, visible emissions remain, a method 9 observation will be conducted. If the opacity is at or under the indicator opacity then an action plan will be made to correct the issue during the first available maintenance period. If an opacity >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 the observation of visible emissions. The opacity exceedance will be reported to the IDNR only if the opacity limit has been exceeded or if corrective action fails to get the opacity below the indicator opacity.

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

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

Authority for Requirement: 567 IAC 24.108(14)

Stack Testing:

Pollutant - PM
Stack Test to be Completed by (date) – Within 3.5 years of permit issuance
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 24.108(14)

Pollutant – PM_{10}
Stack Test to be Completed by (date) – Within 3.5 years of permit issuance
Test Method - 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement – 567 IAC 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-29

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-29	#4 Kettle Hot Pit	CE-29: Baghouse	Stucco	56 tons/hr	96-A-892-S3

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 10 %
Authority for Requirement: DNR Construction Permit 96-A-892-S3
567 IAC 23.1(2)"ppp",
40 CFR 60 Subpart UUU

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.025 gr/dscf
Authority for Requirement: DNR Construction Permit 96-A-892-S3
567 IAC 23.1(2)"ppp",
40 CFR 60 Subpart UUU

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.

NSPS Applicability:
This emission unit is subject to Subparts A (General Provisions; 40 CFR §60.1 – 40 CFR §60.19) and UUU (Standards of Performance for Calciners and Dryers in Mineral Industries; 40 CFR §60.730 – 40 CFR §60.737) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR Construction Permit 96-A-892-S3
567 IAC 23.1(2)"ppp",
40 CFR 60 Subpart UUU

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

Stack Height, (ft, from the ground): 43
Stack Opening, (inches, dia.): 16
Exhaust Flow Rate (scfm): 4,000
Exhaust Temperature (°F): 165
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 96-A-892-S3

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

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

Opacity:
Check emissions weekly during operation of the unit. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use "no visible emissions" as an action level. If an emission, other than steam is identified, corrective action will be taken. If after corrective action, visible emissions remain, a method 9 observation will be conducted. If the opacity is at or under the indicator opacity then an action plan will be made to correct the issue during the first available maintenance period. If an opacity >10% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. The opacity exceedance will be reported to the IDNR only if the opacity limit has been exceeded or if corrective action fails to get the opacity below the indicator opacity.

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

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

Authority for Requirement: 567 IAC 24.108(14)

Stack Testing

Pollutant - PM
Stack Test to be Completed by (date) – Within 3.5 years of permit issuance
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 24.108(14)

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 24.108(3)

Emission Point ID Number: EP-30

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-30A	#1 Kettle	CE-30A: Baghouse	Gypsum Ore	35 tons/hr	97-A-1026-S2
EU-30B	#1 Kettle Hot Pit	CE-30B: Cartridge Dust Collector		35 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): 10 %
Authority for Requirement: DNR Construction Permit 97-A-1026-S2
567 IAC 23.1(2)"ppp",
40 CFR 60 Subpart UUU

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 2.19 lb/hr
Authority for Requirement: DNR Construction Permit 97-A-1026-S2

Pollutant: Particulate Matter (PM) – Federal
Emission Limit(s): 0.040 gr/dscf
Authority for Requirement: DNR Construction Permit 97-A-1026-S2
567 IAC 23.1(2)"ppp",
40 CFR 60 Subpart UUU

Pollutant: Particulate Matter (PM) – State
Emission Limit(s): 2.19 lb/hr
Authority for Requirement: DNR Construction Permit 97-A-1026-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.

NSPS Applicability:
This emission unit is subject to Subparts A (General Provisions; 40 CFR §60.1 – 40 CFR §60.19) and UUU (Standards of Performance for Calciners and Dryers in Mineral Industries; 40 CFR §60.730 – 40 CFR §60.737) of the New Source Performance Standards (NSPS).
Authority for Requirement: DNR Construction Permit 97-A-1026-S2
567 IAC 23.1(2)"ppp",
40 CFR 60 Subpart UUU

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

Stack Height, (ft, from the ground): 96.7
Stack Opening, (inches, dia.): 30
Exhaust Flow Rate (scfm): 12,000
Exhaust Temperature (°F): 220
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 97-A-1026-S2

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

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

Opacity:
Check emissions weekly during operation of the unit. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use "no visible emissions" as an action level. If an emission, other than steam is identified, corrective action will be taken. If after corrective action, visible emissions remain, a method 9 observation will be conducted. If the opacity is at or under the indicator opacity then an action plan will be made to correct the issue during the first available maintenance period. If an opacity >10% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. The opacity exceedance will be reported to the IDNR only if the opacity limit has been exceeded or if corrective action fails to get the opacity below the indicator opacity.

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

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

Authority for Requirement: 567 IAC 24.108(14)

Stack Testing

Pollutant - PM
Stack Test to be Completed by (date) – Within 3.5 years of permit issuance
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 24.108(14)

Pollutant – PM_{10}
Stack Test to be Completed by (date) – Within 3.5 years of permit issuance
Test Method - 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement – 567 IAC 24.108(14)

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-32 & EP-33

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EP-32	EU-32	Unprocessed Waste Wallboard Pile	Wallboard	60,000 tons/yr	NA
EP-33	EU-33	Processed Waste Wallboard Pile	Wallboard	60,000 tons/yr	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 24.108(3)

Emission Point ID Number: EP-34

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-34	#1 Landplaster Storage Bin	CE-34: Baghouse	Stucco	1 ton/hr	01-A-361

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 01-A-361
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-361
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.

Operating Limits:

A. Maintain Baghouse according to manufacturer's specifications and maintenance schedule.

Reporting & Recordkeeping:

A. Record on a monthly basis, all maintenance (if any) of Baghouse.

Authority for Requirement: DNR Construction Permit 01-A-361

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

Stack Height, (ft, from the ground): 74
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 1,160
Exhaust Temperature (°F): 125
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-361

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-35, EP-36

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-35	Mine Emergency Hoist	NA	Diesel	130 bhp	NA
EU-36	Diesel Fire Pump	NA	Diesel	290 bhp	NA

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"

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 Applicability:
The emergency engines are subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(iii) these compression ignition emergency engines, located at an area source, are an existing stationary RICE as they were constructed prior to June 12, 2006.

Compliance Date:
Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Fuel Requirements:
No requirements except (beginning January 1, 2015) if you own or operate an existing emergency compression ignited stationary engine with a site rating of more than 100 bhp and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is

contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must use diesel fuel that meets the requirements in 40 CFR 1090.305 for nonroad diesel fuel. Those requirements include a maximum sulfur content of 15 ppm (0.0015%) by weight and a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume. 40 CFR 63.6604(b).

Operation and Maintenance Requirements 40 CFR 63.6603, 63.6625, 63.6640 and Tables 2d and 6 to Subpart ZZZZ:

A. Change oil and filter every 500 hours of operation or within 1 year + 30 days, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
B. Inspect air cleaner every 1000 hours of operation or within 1 year + 30 days, whichever comes first, and replace as necessary.
C. Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days, whichever comes first, and replace as necessary.
D. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
E. Install a non-resettable hour meter if one is not already installed.
F. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f):

A. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
B. There is no time limit on the use of emergency stationary RICE in emergency situations.
C. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing, emergency demand response and periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
D. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655:

A. Keep records of the maintenance conducted on the stationary RICE.

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

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

A. An initial notification is not required per 40 CFR 63.6645(a)(5)
B. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2d. (See Footnote 2 of Table 2d for more information.)
C. If you own or operate an emergency stationary RICE with a site rating of more than 100 bhp that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must submit an annual report. (See 40 CFR 63.6650(h) for additional information.)

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-47

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-47	Dunnage Processing	CE-47: Baghouse [(1)]	Wallboard Cuttings	0.68 ton/hr	02-A-362

[(1)] #1 End Saw (EU-12) and #2 End Saw (EU-13) are existing emission units that are controlled by existing fabric filter baghouse. These emission units can also vent to CE-47 Baghouse and to the atmosphere through EP-47.

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-362
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.54 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-362
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 34
Stack Opening, (inches, dia.): 22
Exhaust Flow Rate (scfm): 9,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 02-A-362

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

Monitoring Requirements

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

Stack Testing

Pollutant - PM
Stack Test to be Completed by (date) – Within 3.5 years of permit issuance
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 24.108(14)

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-49

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-49	FST System	CE-49: Baghouse	Stucco	140,000 lbs/hr	04-A-612-S1

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40 % (1)
Authority for Requirement: DNR Construction Permit 04-A-612-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-612-S1
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 80
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (acfm): 2,000
Exhaust Temperature (°F): 300
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 04-A-612-S1

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-50

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-50	LPG Generator	NA	LPG	197 bhp	NA

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppm_v
Authority for Requirement: 567 IAC 23.3(3)"e"

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

NESHAP Applicability:
The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(iii) this spark ignition emergency engine, located at an area source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

Compliance Date:
Per 63.6595(a)(1) you must comply with the provisions of subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6603, 63.6625, 63.6640 and Tables 2d and 6 to Subpart ZZZZ:

A. Change oil and filter every 500 hours of operation or within 1 year + 30 days, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)
B. Inspect spark plugs every 1,000 hours of operation or 1 year + 30 days, whichever comes first, and replace as necessary.
C. Inspect all hoses and belts every 500 hours of operation or 1 year + 30 days, whichever comes first, and replace as necessary.
D. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
E. Install a non-resettable hour meter if one is not already installed.
F. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f):

A. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
B. There is no time limit on the use of emergency stationary RICE in emergency situations.
C. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing, emergency demand response and periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
D. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655:

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

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

A. An initial notification is not required per 40 CFR 63.6645(a)(5).
B. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2d. (See Footnote 2 of Table 2d for more information.)
C. If you own or operate an emergency stationary RICE with a site rating of more than 100 bhp that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii) , you must submit an annual report. (See 40 CFR 63.6650(h) for additional information.)

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-56

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU-56	Office Emergency Generator	Natural Gas	105 bhp	NA

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)[(1)]
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppm_v
Authority for Requirement: 567 IAC 23.3(3)"e"

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

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

According to 40 CFR 63.6590(c)(1), a new stationary RICE located at an area source of HAP emissions must meet the requirements of Part 63 by meeting the requirements of 40 CFR part 60 subpart JJJJ for spark ignition engines. No further requirements apply for this engine under Part 63.

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

Compliance Demonstrations:

A. You must demonstrate compliance with the emission standards according to one of following methods (40 CFR 60.4243(b)):
    a. Purchasing a certified engine that complies with the emission standards, or
    b. Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct performance tests to demonstrate compliance in accordance with 40 CFR 60.4244. Owners and operators are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 4243(b) for additional information.

Maximum Engine Power	Initial Test	Subsequent Test
25 < HP ≤ 500	Required	Not required

B. 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(b)(1), 4243(a) and 4245(a)(2).
C. Owners and operators of natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, a performance test must be conducted to demonstrate compliance with the emission standards. 40 CFR 60.4243(e).
D. If you are an owner or operator of engine ≤ 500 HP and you purchase a non-certified engine or you do not operate and maintain your certified engine and control device according to the manufacturer's written emission-related instructions, you are required to perform initial performance testing, but you are not required to conduct subsequent performance testing unless the engine is rebuilt or undergoes major repair or maintenance. 40 CFR 60.4243(f).
E. Owners and operators of certified engines must keep a record from the manufacturer that the engines are certified to meet applicable emission standards. 40 CFR 60.4245(a)(3).
F. Owners and operators of non-certified engines or certified engines operating in a non-certified manner must keep documentation that these engines meet the applicable emission standards. 40 CFR 60.4245(a)(4).

Operating and Recordkeeping Requirements (40 CFR 4243(d)):

A. Owners and operators of the following emergency SI engines that do not meet the applicable standards for non-emergency engines must install a non-resettable hour meter. 40 CFR 60.4237.

Maximum Engine Power	Engine Was Built On Or After
HP < 130	7/1/2008

B. The engine may be operated for the purpose of maintenance checks and readiness testing a maximum of 100 hours/year. There is no time limit on use for emergency situations.
C. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used to generate income for the facility (e.g. supplying power to the

grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing.

D. Owners and operators of an emergency engine must keep records of all operation of the engine. The owner must record the date and time of operation of the engine and the reason the engine was in operation.

E. Owners and operators of the following emergency SI that does not meet the applicable standards for a non-emergency engine must keep the following records. 40 CFR 60.4245(b).

Maximum Engine Power	Manufactured On Or After	Recordkeeping Requirement
25 < HP < 130	7/1/2008	Hours of operation recorded through a non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

F. If you own or operate an emergency stationary SI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4243(d)(2)(ii) and (iii) or that operates for the purposes specified in 40 CFR 60.4243(d)(3)(i), you must submit an annual report according to the requirements in 40 CFR60.4245(e)(1) through (3). 40 CFR 60.4245.

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-60

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-60	#2 Kettle/Calciner	CE-60: Baghouse	Ore	18 tons/hr	15-A-558-S2
			Natural Gas	7.5 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): 10 %
Authority for Requirement: DNR Construction Permit 15-A-558-S2
567 IAC 23.1(2)"ppp"
40 CFR 60 Subpart UUU

Pollutant: Particulate Matter (PM) – Federal
Emission Limit(s): 0.040 gr/dscf
Authority for Requirement: DNR Construction Permit 15-A-558-S2
567 IAC 23.1(2)"ppp"
40 CFR 60 Subpart UUU

Pollutant: Particulate Matter (PM) – State
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 15-A-558-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.

A. The pressure drop across the baghouse (CE-60) shall be maintained between 0.5 and 6 inches H_2O.
B. The owner or operator shall, once per week, record the pressure drop across the baghouse, CE-60. If the pressure drop is outside the control points listed (0.5" – 6" H_2O), an immediate inspection to see if visible emissions are present shall be required and the results documented. If the emission point has no visible emissions the facility shall develop an action plan and correct the problem during regularly scheduled maintenance. If the emission point has visible emissions an opacity reading shall be taken and if the opacity listed in the emission limits above is exceeded the emission unit will be shut down within 8 hours until fixed.
C. The log of all maintenance and inspection activities performed on the control equipment,

CE-60. This log shall include, but is not limited to:

a. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;
b. Any issue(s) identified during the inspection and the date each issue(s) was resolved;
c. Any issue(s) addressed during the maintenance activities and the date each issue(s) was resolved; and,
d. Identification of the staff member performing the inspection or maintenance activity.

Authority for Requirement: DNR Construction Permit 15-A-558-S2

NSPS and NESHAP Requirements:

The #2 Kettle/Calciner is subject to Subparts A (General Provisions; 40 CFR §60.1 – 40 CFR §60.19) and UUU (Standards of Performance for Calciners and Dryers in Mineral Industries; 40 CFR §60.730 – 40 CFR §60.737) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR Construction Permit 15-A-558-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 95
Stack Opening, (inches, dia.): 30.75
Exhaust Flow Rate (scfm): 4,200
Exhaust Temperature (°F): 300
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 15-A-558-S2

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

Monitoring Requirements

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

Opacity:

Check emissions weekly during operation of the unit. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use "no visible emissions" as an action level. If an emission, other than steam is identified, corrective action will be taken. If after corrective action, visible emissions remain, a method 9 observation will be conducted. If the opacity is at or under the indicator opacity then an action plan will be made to correct the issue during the first available maintenance period. If an opacity >10% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. The opacity exceedance will be reported to the IDNR only if the opacity limit has been exceeded or if corrective action fails to get the opacity below the indicator opacity.

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

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

Authority for Requirement: 567 IAC 24.108(14)

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-61

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-61	Air Slide	CE-61: Bin Vent Filters	Ore	36 tons/hr	19-A-242

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 19-A-242
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 19-A-242
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.

A. The pressure drop across the bin vent filters (CE-61) shall be maintained between 0.5 and 8 inches H_2O.
B. The owner or operator shall, once per week, record the pressure drop across the bin vent filters, CE-61. If the pressure drop is outside the control points listed (0.5" – 8" H_2O), an immediate inspection to see if visible emissions are present shall be required and the results documented. If the emission point has no visible emissions the facility shall develop an action plan and correct the problem during regularly scheduled maintenance. If the emission point has visible emissions an opacity reading shall be taken and if the opacity listed in the emission limits above is exceeded the emission unit will be shut down within 8 hours until fixed.
C. The log of all maintenance and inspection activities performed on the control equipment, CE-61. This log shall include, but is not limited to:
    a. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;

b. Any issue(s) identified during the inspection and the date each issue(s) was resolved;
c. Any issue(s) addressed during the maintenance activities and the date each issue(s) was resolved; and,
d. Identification of the staff member performing the inspection or maintenance activity.

Authority for Requirement: DNR Construction Permit 19-A-242

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 45.5
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 420
Exhaust Temperature (°F): 300
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 19-A-242

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-70

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-70	#2S Kettle/Calciner	CE-70: Baghouse	Ore	18 tons/hr	19-A-241
			Natural Gas	7.5 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): 10 %
Authority for Requirement: DNR Construction Permit 19-A-241
567 IAC 23.1(2)"ppp"
40 CFR 60 Subpart UUU

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limit(s): 1.44 lb//hr
Authority for Requirement: DNR Construction Permit 19-A-241

Pollutant: Particulate Matter (PM) – Federal
Emission Limit(s): 0.040 gr/dscf
Authority for Requirement: DNR Construction Permit 19-A-241
567 IAC 23.1(2)"ppp"
40 FR 60 Subpart UUU

Pollutant: Particulate Matter (PM) – State
Emission Limit(s): 1.44 lb//hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 19-A-241
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.

A. The pressure drop across the baghouse (CE-70) shall be maintained between 0.5 and 6 inches H_2O.
B. The owner or operator shall, once per week, record the pressure drop across the baghouse, CE-70. If the pressure drop is outside the control points listed (0.5" – 6" H_2O), an immediate inspection to see if visible emissions are present shall be required and the results documented. If the emission point has no visible emissions the facility shall develop an action plan and correct the problem during regularly scheduled maintenance.

If the emission point has visible emissions an opacity reading shall be taken and if the opacity listed in the emission limits above is exceeded the emission unit will be shut down within 8 hours until fixed.

C. The log of all maintenance and inspection activities performed on the control equipment, CE-70. This log shall include, but is not limited to:
    a. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;
    b. Any issue(s) identified during the inspection and the date each issue(s) was resolved;
    c. Any issue(s) addressed during the maintenance activities and the date each issue(s) was resolved; and,
    d. Identification of the staff member performing the inspection or maintenance activity.

Authority for Requirement: DNR Construction Permit 19-A-241

NSPS and NESHAP Requirements:

The #2 Kettle/Calciner is subject to Subparts A (General Provisions; 40 CFR §60.1 – 40 CFR §60.19) and UUU (Standards of Performance for Calciners and Dryers in Mineral Industries; 40 CFR §60.730 – 40 CFR §60.737) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR Construction Permit 19-A-241
40 CFR 60 Subpart UUU
567 IAC 23.1(2)"ppp"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 95
Stack Opening, (inches, dia.): 19.5
Exhaust Flow Rate (scfm): 4,200
Exhaust Temperature (°F): 300
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 19-A-241

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

Monitoring Requirements

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

Opacity:

Check emissions weekly during operation of the unit. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use "no visible emissions" as an action level. If an emission, other than steam is identified, corrective action will be taken. If after corrective action, visible emissions remain, a method 9 observation will be conducted. If the opacity is at or under the indicator opacity then an action plan will be made to correct the issue during the first available maintenance period. If an opacity >10% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. The opacity exceedance will be reported to the IDNR only if the opacity limit has been exceeded or if corrective action fails to get the opacity below the indicator opacity.

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

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

Authority for Requirement: 567 IAC 24.108(14)

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-74, EP-75

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP-74	EU-74	#3N Kettle/ Calciner	CE-74: Cartridge Filter	Gypsum, Natural Gas	18 tons gypsum per hour, 7.5 MMBtu/hr natural gas-fired indirect burner	25-A-049
EP-75	EU-75	#3S Kettle/ Calciner	CE-75: Cartridge Filter	Gypsum, Natural Gas	18 tons gypsum per hour, 7.5 MMBtu/hr natural gas-fired indirect burner	25-A-050

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): 10%
Authority for Requirement: DNR Construction Permit 25-A-049, 25-A-050
40 CFR 60 Subpart UUU
567 IAC 23.1(2)"ppp"

Pollutant: Particulate Matter (PM) – Federal
Emission Limit(s): 0.040 gr/dscf
Authority for Requirement: DNR Construction Permit 25-A-049, 25-A-050
40 CFR 60 Subpart UUU
567 IAC 23.1(2)"ppp"

Pollutant: Particulate Matter (PM) – State
Emission Limit(s): 1.44 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 25-A-049, 25-A-050
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppm_v
Authority for Requirement: DNR Construction Permit 25-A-049, 25-A-050
567 IAC 23.3(3)"e"

Operational Limits & Reporting/Record keeping Requirements

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

A. The owner or operator shall maintain the Cartridge Filters (CE-74 and CE-75) in accordance with the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a record of all inspections and maintenance conducted on each of the control equipment. This record shall include, but is not limited to:
   (1) The date any inspection and/or maintenance was performed on the control equipment;
   (2) Any issues identified during the inspection; and,
   (3) Any issues addressed during the maintenance activities.
B. The Cartridge Filters (CE-74 and CE-75) differential pressure drop shall be maintained between 0.5 to 6.0 inches water column. The owner or operator shall establish an alarm setting for the purpose of initiating corrective action when the unit is outside of the required pressure drop range.
   (1) The owner or operator shall properly operate and maintain equipment to monitor the differential pressure drop across each baghouse. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
   (2) If the pressure drop across the control equipment falls outside the range specified in Condition B., the owner or operator shall investigate the control equipment and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the emission unit is not in operation.
C. The owner or operator shall comply with the recordkeeping and reporting requirements in accordance with 40 CFR §60.735.

Authority for Requirement: DNR Construction Permit 25-A-049, 25-A-050

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 95
Stack Opening, (inches, dia.): 19.5
Exhaust Flow Rate (scfm): 4,200
Exhaust Temperature (°F): 300
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 25-A-049, 25-A-050

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 for each emission point.

Compliance Demonstrations (Required for EP-74 & EP-75)

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
PM – Federal	Stack Test(1)	Initial	2 hours	40 CFR 60, Appendix A, Method 5
Opacity	Stack Test(1)	Initial	1 hour	40 CFR 60, Appendix A, Method 9

(1)The owner or operator shall conduct performance testing in accordance with 40 CFR §60.736.

Authority for Requirement: DNR Construction Permits 25-A-049, 25-A-050

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)

Opacity:

Check emissions weekly during operation of the unit. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use "no visible emissions" as an action level. If an emission, other than steam is identified, corrective action will be taken. If after corrective action, visible emissions remain, a method 9 observation will be conducted. If the opacity is at or under the indicator opacity then an action plan will be made to correct the issue during the first available maintenance period. If an opacity >10% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. The opacity exceedance will be reported to the IDNR only if the opacity limit has been exceeded or if corrective action fails to get the opacity below the indicator opacity.

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

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

Authority for Requirement: 567 IAC 24.108(14)

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-B8

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU-B8	500 Gallon Gasoline Tank	Gasoline	500 gal	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.

No operating 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.

NESHAP Applicability:
The gasoline tank is subject to 40 CFR 63 Subpart CCCCCC—National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

Authority for Requirement: 40 CFR 63 Subpart CCCCCC
567 IAC 23.1(4)"ec"

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code (IAC). When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024, and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix C.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 24.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 24.105(2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 24.108(1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 24.108(14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 24.108(9)"b"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 24.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—24.104(455B), permit expiration terminates a source’s right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—24.105(455B). *567 IAC 24.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 24.105(2). *567 IAC 24.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable

inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 24.107(4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 24.108(15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 24.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 24.108 (5)*

G6. Annual Fee

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

G7. Inspection of Premises, Records, Equipment, Methods and Discharges
Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:
1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 24.108 (15)"b"*

G8. Duty to Provide Information
The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 24.108 (9)"e"*

G9. General Maintenance and Repair Duties
The owner or operator of any air emission source or control equipment shall:
1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 21.8(1)*

G10. Recordkeeping Requirements for Compliance Monitoring
1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
    a. The date, place and time of sampling or measurements
    b. The date the analyses were performed.
    c. The company or entity that performed the analyses.
    d. The analytical techniques or methods used.
    e. The results of such analyses; and
    f. The operating conditions as existing at the time of sampling or measurement.
    g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

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

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

c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 24.108(14), 567 IAC 24.108(12)*

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

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

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

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 24;

b. Compliance test methods specified in 567 Chapter 21; or

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

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

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

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

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

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 24.108(6)*

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the

incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 21.10(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 21.10(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:

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

ii. The estimated quantity of the excess emission.

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

iv. The cause of the excess emission.

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

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

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

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

ii. The estimated quantity of the excess emission.

iii. The time and duration of the excess emission.

iv. The cause of the excess emission.

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

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

vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 21.7(1)-567 IAC 21.7(4)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 24.108(5)"b"*

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

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

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

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

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 24.

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

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

d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—24.140(455B) through 567 - 24.144(455B));.

e. The changes comply with all applicable requirements.

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

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

ii. The date on which the change will occur,

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

iv. The pollutants emitted subject to the emissions trade

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

vi. A description of the trading of emissions increases and decreases for the

purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and

vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 24.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 24.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 24.110(1). *567 IAC 24.110(3)*

4. The permit shield provided in subrule 24.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 24.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 24.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

i. Correct typographical errors

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

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

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

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

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

2. Minor Title V Permit Modification.

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

i. Do not violate any applicable requirement;

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

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

iv. Do not seek to establish or change a permit term or condition for which there

is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

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

vi. Are not required to be processed as significant modification under rule 567 - 24.113(455B).

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

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

ii. The permittee's suggested draft permit;

iii. Certification by a responsible official, pursuant to 567 IAC 24.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 24.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 24.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 24, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 24.111-567 IAC 24.113*

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional

permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. *567 IAC 22.1(1)*

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 24.108(7)*

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

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
    a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
    b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
    c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
    d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
    a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
    b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
    c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
    d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
    e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

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

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

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

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

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 24.108(9)"c"*

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

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

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 24.108(17)"a", 567 IAC 24.108(17)"b"*

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

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

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

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than

the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

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

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 24.114*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 24.114*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 24.114*

G25. Permit Shield

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

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

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

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

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

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

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

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

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 24.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 24.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 24.108 (9)"d"*

G28. Transferability
This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of 567 IAC 24.111(1). *567 IAC 24.111 (1)"d"*

G29. Disclaimer
No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification
The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks (42 days) of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 343-6589

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.
567 IAC 21.10(7)"a", 567 IAC 21.10(9)

G31. Prevention of Air Pollution Emergency Episodes

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

G32. Contacts List

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

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

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

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

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

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

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

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

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

Field Office 5
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 725-0268

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

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

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

V. Appendices

Appendix A: Compliance Assurance Monitoring (CAM) Plan

United States Gypsum Company operates a gypsum mill and board plant in Sperry, IA. There are many pieces of equipment at the facility that require particulate emission control through a bag house to limit PM emissions below the PSD level and to protect ambient air quality. The following Compliance Assurance Monitoring (CAM) Plan aims to ensure compliance with proper operation and maintenance of the control equipment on site.

I. Background:

EP ID	Description	IDNR Permit No.	Control Equipment
06	#4 Gypsum Calcining Kettle	88-A-194-S3	Flex kleen pulse jet
08	Cooling Belt Conveyor	02-A-740-S3	GE Pulse Jet
09	Gypsum Ore Rotary Dryer	87-A-146-S3	AirTrol Pulse Jet
18	#2 Stucco System	88-A-195-S4	Flex kleen pulse jet
28	Rock Crusher	96-A-363-S1	Flex kleen pulse jet
29	#4 Kettle Hot Pit	96-A-892-S3	Flex kleen pulse jet

Monitoring Requirements:

A. Visible emissions daily.
B. Weekly pressure drop readings.
C. Monthly check of the pulse function.
D. Quarterly bag inspections.
E. Semi-annual equipment inspection.

Control Technology:

A. All baghouses must operate within the pressure drop range given in the table below. If the pressure drop is outside the control points given in the table below an immediate inspection to see if visible emissions are present is required and will be documented. If the unit has no visible emissions, an action plan will be made to monitor and correct the problem during regularly scheduled maintenance. If the unit has visible emissions, an opacity reading will be taken and if the indicator opacity is exceeded the unit will be shut down within 8 hours until fixed.

Dust Collector Operating Ranges for Differential Pressure

	Target	Low	High
EP-06	2	0.5	3.5
EP-08	3.5	1	6
EP-09	2	0.5	3.5
EP-18	3.5	2	5
EP-28	2.5	1	4
EP-29	3	1	5

II. Monitoring Approach

Daily:

A. Check emissions daily during operation of the unit. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use "no visible emissions" as an action level. If an emission, other than steam is identified, corrective action will be taken. If after corrective action, visible emissions remain, a method 9 observation will be conducted. If the opacity is at or under the indicator opacity then an action plan will be made to correct the issue during the first available maintenance period. If an opacity greater than the indicator opacity is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. The opacity exceedance will be reported to the IDNR only if the opacity limit has been exceeded or if corrective action fails to get the opacity below the indicator opacity.

B. If weather conditions prevent the observer from conduction visible emission 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 shall be made the next operating day where weather permits. Document inspection and any corrective action taken.

Weekly:

A. Monitor pressure drop. Record the pressure drop reading if applicable and document if it is within the pressure range given in the table above. If the pressure drop is outside of the range, document the plan to bring the unit back into the appropriate range.

Monthly:

A. Check the cleaning sequence and air delivery system of the bag house.

B. Check the hopper and rotary valve performance, if applicable. If abnormal conditions are detected, the appropriate measures for remediation will be determined and a corrective action plan formulated. If abnormal condition is causing dust collector to operate outside permit limits, corrective action will be taken immediately.

C. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly:

A. Thoroughly inspect bags for leaks and wear. This inspection will be conducted by inspecting the clean side of the dust collector for material leak-through. If any is detected, the dust collector will be tested with a black light and Visualite to pinpoint leaking bags. The location of the leak or wear should be noted on a drawing of the bag layout. A written record should be maintained of the inspection and actions resulting from the inspection.

Semiannual:

A. Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

Appendix B: Reference Web Links

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

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 UUU - Standards of Performance for Calciners and Dryers in Mineral Industries
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-UUU

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-63/subpart-JJJJ

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

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

40 CFR 63 Subpart CCCCCC—National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-CCCCCC

Appendix C: Executive Order (EO10) Rules Crosswalk

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

Previous Chapter Number (Priorto 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
20	**20 (Reserved)**	**Scope of Title - Definitions**	**N/A**	**Definitions moved** to Ch. 21, 22 and 23. **Rescinded** Ch. 20. (Reserved)
20.1	N/A	Scope of title	N/A	
20.2	Ch. 21, 22, 23	Definitions	Definitions	See beginning of Ch. 21, 22, and 23
20.3	N/A	Air quality forms generally	N/A	

21	**21**	**Compliance**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Kept and combined** with rules from Chapters 24, 25, 26, and 29.
21.1	21.1	Compliance Schedule	Definitions and compliance requirements	Added definitions from Ch. 21, some language updated
21.2	21.2	Variances	Variances	Some language updated
21.3	21.3	Emission reduction program	Reserved	Reserved
21.4	21.4	Circumvention of rules	Circumvention of rules	Minor language updated
21.5	21.5	Evidence used in establishing that a violation has or is occurring	Evidence used in establishing that a violation has occurred or is occurring	21.5(2) Reserved, some language updated
21.6	21.6	Temporary electricity generation for disaster situations	Temporary electricity generation for disaster situations	Minor language updated
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated
N/A	21.9	N/A	Compliance with other requirements	New language
25.1	21.10	Testing and sampling of new and existing equipment	Testing and sampling of new and existing equipment	Moved from Ch. 25, some language updated
25.2	21.11	Continuous emission monitoring under the acid rain program	Continuous emission monitoring under the acid rain program	Moved from Ch. 25, some language updated
25.3	N/A	Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated
26.1	21.14	Prevention of air pollution emergency episodes - General	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions alert level	Abatement strategies emission reduction actions alert level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions warning level	Abatement strategies emission reduction actions warning level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table V	Table III	Abatement strategies emission reduction actions emergency level	Abatement strategies emission reduction actions emergency level	Moved from Ch. 26, reference federal appendix table

22	**22**	**Controlling Pollution-Permits**	**Controlling Air Pollution - Construction Permitting**	**Kept construction permit rules and combined** with Ch. 20 (definitions) and Ch. 28 (NAAQS). **Moved operating permit rules** to Chapter 24.
22.1	22.1	Permits required for new or existing stationary sources	Definitions and permit requirements for new or existing stationary sources	Added definitions from Ch. 20, some language updated
22.2	22.2	Processing permit applications	Processing permit applications	
22.3	22.3	Issuing permits	Issuing permits	
22.4	22.4	Special requirements for major stationary sources located in areas designated attainment or unclassified (PSD)	Major stationary sources located in areas designated attainment or unclassified (PSD)	
22.5	22.5	Special requirements for nonattainment areas	Major stationary sources located in areas designated Nonattainment	
22.6	22.6	Nonattainment area designations	Reserved	

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22.7	22.7	Alternative emission control program	Alternative emission control program	
22.8	22.8	Permit by rule	Permit by rule	
22.9	22.9	Special requirements for visibility protection	Special requirements for visibility protection	A lot of language updated or removed
22.10	22.10	Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment	Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment	
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	Moved from Ch. 28, minor language updated
22.12 to 22.99	N/A	Reserved	N/A	Removed

22.100 - 22.300(12)	**(New) 24**	**N/A**	**Operating Permits**	**Moved operating permit rules** from Ch. 22 to Ch. 24.
22.100	24.100	Definitions for Title V operating permits	Definitions for Title V operating permits	Moved from Ch. 22, some language updated, many 40 CFR 70 definitions adopted by reference
22.101	24.101	Applicability of Title V operating permit requirements	Applicability of Title V operating permit requirements	Moved from Ch. 22, some language updated to correct punctuation and remove old dates
22.102	24.102	Source category exemptions	Source category exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.103	24.103	Insignificant activities	Insignificant activities	Moved from Ch. 22, some language updated to correct typos and remove old dates
22.104	24.104	Requirement to have a Title V permit	Requirement to have a Title V permit	Moved from Ch. 22, some language updated no changes to rule text
22.105	24.105	Title V permit applications	Title V permit applications	Moved from Ch. 22, updated language to address electronic submissions and remove past application due dates
22.106	24.106	Annual Title V emissions inventory	Annual Title V emissions inventory	Moved from Ch. 22, no changes to rule text
22.107	24.107	Title V permit processing procedures	Title V permit processing procedures	Moved from Ch. 22, some language updated to update locations of public records and remove old CFR amendment dates
22.108	24.108	Permit content	Permit content	Moved from Ch. 22, some language updated to correct punctuation, remove old dates, and adopt 40 CFR 70 rules by reference
22.109	24.109	General permits	General permits	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.110	24.110	Changes allowed without a Title V permit revision (off-permit revisions)	Changes allowed without a Title V permit revision (off-permit revisions)	Moved from Ch. 22, some language updated to remove redundant language
22.111	24.111	Administrative amendments to Title V permits	Administrative amendments to Title V permits	Moved from Ch. 22, no changes to rule text
22.112	24.112	Minor Title V permit modifications	Minor Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.113	24.113	Significant Title V permit modifications	Significant Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.114	24.114	Title V permit reopenings	Title V permit re-openings	Moved from Ch. 22 to Ch. 24, some language updated to adopt 40 CFR 70 rules by reference
22.115	24.115	Suspension, termination, and revocation of Title V permits	Suspension, termination, and revocation of Title V permits	Moved from Ch. 22, no changes to rule text
22.116	24.116	Title V permit renewals	Title V permit renewals	Moved from Ch. 22, no changes to rule text
22.117-22.119	24.117-24.119	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.120	24.120	Acid rain program—definitions	Acid rain program—definitions	Moved from Ch. 22, some language updated to remove old CFR amendment dates and address electronic submissions
22.121	24.121	Measurements, abbreviations, and acronyms	Reserved	Moved from Ch. 22, no changes to rule text
22.122	24.122	Applicability	Applicability	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.123	24.123	Acid rain exemptions	Acid rain exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.124	24.124	Retired units exemption	Reserved	Moved from Ch. 22, no changes to rule text
22.125	24.125	Standard requirements	Standard requirements	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.126	24.126	Designated representative—submissions	Designated representative—submissions	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.127	24.127	Designated representative—objections	Designated representative—objections	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.128	24.128	Acid rain applications—requirement to apply	Acid rain applications—requirement to apply	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference

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

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

Previous Chapter Number (Priorto 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
24	**(New) 21**	**Excess Emissions**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Moved operating permit rules** here (to Ch. 24)**.**
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated

25	**(New) 21**	**Emissions Measurement**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 25. (Reserved)
25.1	21.10	Testing and sampling of new and existing equipment	Testing and sampling of new and existing equipment	Moved from Ch. 25, some language updated
25.2	21.11	Continuous emission monitoring under the acid rain program	Continuous emission monitoring under the acid rain program	Moved from Ch. 25, some language updated
25.3		Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated

26	**(New) 21**	**Emergency Air Pollution Episodes**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 26. (Reserved)
26.1	21.14	Prevention of air pollution emergency episodes - General	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions alert level	Abatement strategies emission reduction actions alert level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions warning level	Abatement strategies emission reduction actions warning level	Moved from Ch. 26, reference federal appendix table
Ch 26Table V	Table III	Abatement strategies emission reduction actions emergency level	Abatement strategies emission reduction actions emergency level	Moved from Ch. 26, reference federal appendix table

27	**27**	**Local Program Acceptance**	**Local Program Acceptance**	**Kept**
27.1	27.1	General	General	Kept, some language updated
27.2	27.2	Certificate of acceptance	Certificate of acceptance	Kept, some language updated
27.3	27.3	Ordinance or regulations	Ordinance or regulations	Kept, some language updated
27.4	27.4	Administrative organization	Administrative organization	Kept, some language updated
27.5	27.5	Program activities	Program activities	Kept, some language updated

28	**22**	**NAAQS**	**N/A**	**Moved rules and combined** with Ch. 22. **Rescinded** Ch. 28. (Reserved)
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	**Moved from Ch. 28**, minor language updated **Rescinded** Ch. 28. (Reserved)

29	**(New) 21**	**Opacity Qualifications**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 29. (Reserved)
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
30	**30**	**Fees**	**Fee**	**Kept**
30.1	30.1	Purpose	Purpose	Kept, language updated
30.2	30.2	Fees associated with new source review applications	Fees associated with new source review applications	Kept, some language updated
30.3	30.3	Fees associated with asbestos demolition or renovation notification	Fees associated with asbestos demolition or renovation notification	Kept, some language updated
30.4	30.4	Fees associated with Title V operating permits	Fees associated with Title V operating permits	Kept, some language updated
30.5	30.5	Fee advisory groups	Fee advisory groups	Kept, language updated
30.6	30.6	Process to establish or adjust fees and notification of fee rates	Process to establish or adjust fees and notification of fee rates	Kept, some language updated
30.7	30.7	Fee revenue	Reserved	Language removed

31	**31**	**Nonattainment Areas**	**Nonattainment New Source Review**	**Kept**
31.1	31.1	Permit requirements relating to nonattainment areas	Permit requirements relating to nonattainment areas	Kept, some language updated
31.2	31.2	Conformity of general federal actions to the Iowa state implementation plan or federal implementation plan - Rescinded	Reserved	Language removed
31.3	31.3	Nonattainment new source review requirements for areas designated nonattainment on or after May 18, 1998	Nonattainment new source review (NNSR) requirements for areas designated nonattainment	Kept, some language updated
31.4	31.4	Preconstruction review permit program	Preconstruction review permit program	Kept
31.5 - 31.8	31.5 - 31.8	Reserved	Reserved	Kept
31.9	31.9	Actuals PALs	Actuals PALs	Kept, some language updated
31.10	31.10	Validity of rules	Validity of rules	Kept
31.11 - 31.19	N/A	Reserved	N/A	Rescinded and removed
31.20	N/A	Special requirements for nonattainment areas designated before May 18, 1998	N/A	Rescinded and removed

32	**N/A**	**AFO Field Study**	**N/A**	**Rescinded** Ch. 32. (Reserved)
32.1	N/A	Animal feeding operations field study	N/A	Rescinded, reserved, and language removed
32.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
32.3	N/A	Exceedance of the health effects value (HEV) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.4	N/A	Exceedance of the health effects standard (HES) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.5	N/A	Iowa Air Sampling Manual	N/A	Rescinded, reserved, and language removed

33	**33**	**Special regulations and construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD) of air quality**	**Construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD)**	**Kept**
33.1	33.1	Purpose	Purpose	Kept, some language updated
33.2	33.2	Reserved	Reserved	Kept
33.3	33.3	Special construction permit requirements for major stationary sources in areas designated attainment or unclassified (PSD)	PSD construction permit requirements for major stationary sources	Kept, some language updated
33.4 - 33.8	33.4 - 33.8	Reserved	Reserved	Kept
33.9	33.9	Plantwide applicability limitations (PALs)	Plantwide applicability limitations (PALs)	Kept, some language updated
33.10	33.10	Exceptions to adoption by reference	Exceptions to adoption by reference	Kept, some language updated

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
34	**N/A**	**Emissions Trading-CAIR-CAMR**	**N/A**	**Rescinded** Ch. 34. (Reserved)
34.1	N/A	Purpose	N/A	Rescinded, reserved, and language removed
34.2 - 34.199	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.200	N/A	Provisions for air emissions trading and other requirements for the Clean Air Interstate Rule (CAIR) - rescinded	N/A	Rescinded, reserved, and language removed
34.201	N/A	CAIR NOx annual trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.202	N/A	CAIR designated representative for CAIR NOx sources - rescinded	N/A	Rescinded, reserved, and language removed
34.203	N/A	Permits - rescinded	N/A	Rescinded, reserved, and language removed
34.204	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.205	N/A	CAIR NOx allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.206	N/A	CAIR NOx allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed
34.207	N/A	CAIR NOx allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.208	N/A	Monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.209	N/A	CAIR NOx opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.210	N/A	CAIR SO2 trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.211 - 34.219	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.220	N/A	CAIR NOx ozone season trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.221	N/A	CAIR NOx ozone season trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.222	N/A	CAIR designated representative for CAIR NOx ozone season sources - rescinded	N/A	Rescinded, reserved, and language removed
34.223	N/A	CAIR NOx ozone season permits - rescinded	N/A	Rescinded, reserved, and language removed
34.224	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.225	N/A	CAIR NOx ozone season allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.226	N/A	CAIR NOx ozone season allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed
34.227	N/A	CAIR NOx ozone season allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.228	N/A	CAIR NOx ozone season monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.229	N/A	CAIR NOx ozone season opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.230 - 34.299	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.300	N/A	Provisions for air emissions trading and other requirements for the Clean Air Mercury Rule (CAMR) - rescinded	N/A	Rescinded, reserved, and language removed
34.301	N/A	Mercury (Hg) budget trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.302	N/A	Hg designated representative for Hg budget sources - rescinded	N/A	Rescinded, reserved, and language removed
34.303	N/A	General Hg budget trading program permit requirements - rescinded	N/A	Rescinded, reserved, and language removed
34.304	N/A	Hg allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.305	N/A	Hg allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed

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

Iowa Department of Natural Resources
Draft Title V Operating Permit Fact Sheet

This document has been prepared to fulfill the public participation requirements of 40 CFR Part 70 and 567 Iowa Administrative Code (IAC) 24.107(6). 40 CFR Part 70 contains operating permit regulations pursuant to Title V of the Clean Air Act.

The Iowa Department of Natural Resources (DNR) finds that:

1. United States Gypsum Co. - Sperry, located at 13425 210th Street, Mediapolis, IA 52637 has applied to renew their Title V Operating Permit. The designated responsible official of this facility is Michael Ensminger.
2. United States Gypsum Co. - Sperry is a gypsum products facility. This facility consists of 41 emission units with potential emissions of:

Pollutant	**Abbreviation**	**Potential Emissions** (Tons per Year)
Particulate Matter (≤ 2.5 μm)	$PM_{2.5}$	202.32
Particulate Matter (≤ 10 μm)	PM_{10}	202.32
Particulate Matter	PM	223.51
Sulfur Dioxide	SO_2	1.79
Nitrogen Oxides	NO_x	175.53
Volatile Organic Compounds	VOC	99.41
Carbon Monoxide	CO	171.90
Lead	Lead	0.00
Hazardous Air Pollutants [(1)]	HAP	15.03

[(1)] May include the following: Formaldehyde, Hexane.

3. United States Gypsum Co. - Sperry submitted a Title V Operating Permit renewal application on December 8, 2025. Based on the information provided in these documents, DNR has made an initial determination that the facility meets all the applicable criteria for the issuance of an operating permit specified in 567 IAC 24.107.
4. DNR has complied with the procedures set forth in 567 IAC 24.107, including those regarding public notice, opportunity for public hearing, and notification of EPA and surrounding state and local air pollution programs.

DNR procedures for reaching a final decision on the draft permit:

1. The public comment period for the draft permit will run from May 7, 2026 through June 6, 2026. During the public comment period, anyone may submit written comments on the permit. Mail signed comments to Derek Wedemeier at the DNR address shown below. The beginning date of this public comment period also serves as the beginning of the U.S. Environmental Protection Agency's (EPA) 45-day review period, provided the EPA does not seek a separate review period.
2. Written requests for a public hearing concerning the permit may also be submitted during the comment period. Any hearing request must state the person's interest in the subject matter, and the nature of the issues proposed to be raised at the hearing. DNR will hold a public hearing upon finding, on the basis of requests, a significant degree of relevant public interest in a draft permit. Mail hearing requests to Derek Wedemeier at the DNR address shown below.
3. DNR will keep a record of the issues raised during the public participation process, and will prepare written responses to all comments received. The comments and responses will be compiled into a responsiveness summary document. After the close of the public comment period, DNR will make a final decision on the renewal application. The responsiveness summary and the final permit will be available to the public upon request.

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DNR concludes that:

1. DNR has authority under 455B.133 Code of Iowa to promulgate rules contained in 567 IAC Chapters 21-33, including, but not limited to, rules containing emission limits, providing for compliance schedules, compliance determination methods and issuance of permits.
2. DNR has the authority to issue operating permits for air contaminant sources and to include conditions in such permits under 455B.134 Code of Iowa.
3. The emission limits included in this permit are authorized by 455B.133 Code of Iowa and 567 IAC Chapters 21-33.
4. DNR is required to comply with 567 IAC Chapter 24 in conjunction with issuing a Title V Operating Permit.
5. The issuance of this permit does not preclude the DNR from pursuing enforcement action for any violation.

Title V Application Review Notes

Applicant:	**United States Gypsum Company – Sperry**
SIC Code:	3275
City:	Mediapolis
County:	Des Moines
EIQ#:	92-5176
Facility#:	29-06-001
Permit #:	03-TV-012R4
Reviewer:	D Wedemeier
Date:	1/12/2026

Facility Identification

Facility Name:	**United States Gypsum Company – Sperry**
Facility Location:	**13425 210th Street**
Responsible Official:	Michael Ensminger
Phone:	319-394-2443

Background

United States Gypsum Company - Sperry has applied to renew their Part 70 Title V Operating Permit. The title V application was submitted on 12/08/2025 and deemed complete. This is the 4th renewal of the Title V permit.

United States Gypsum Company in Mediapolis, Iowa (Plant No. 29-06-001) is a manufacturer of dry-wall and other gypsum-based products. The facility consists of forty-eight (48) significant emission units.

Title V Applicability

Pollutant	Major for Title V?
PM_{10}	☒
SO_2	☐
NO_x	☒
VOC	☐
CO	☒
Lead	☐
Individual HAP	☐
Total HAPs	☐

Program Applicability

- Major Stationary Source for PSD: No
- 40 CFR 60 NSPS: Yes
    - Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
    - Subpart UUU - Standards of Performance for Calciners and Dryers in Mineral Industries
    - Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
- 40 CFR Part 61 NESHAP: No
- 40 CFR Part 63 NESHAP: Yes
    - Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)
    - Subpart CCCCCC—National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities
- Major Source of HAPs: No
- Acid Rain: No
- Stratospheric Ozone Protection: No
- Prevention of Accidental Releases: No

Potential Emissions

- The potential emissions calculations were based off of construction permit limits, AP-42 emission factors, stack test data, mass balance and engineering estimates provided by the facility. The AP-42 emission factors for SO_2, if available, were used instead of 500pmm$_v$ to provide a more realistic potential value when compared to the previous year's emissions inventory. Many of the natural gas burning units have limited PTE based on fuel throughput limitations.

Summary of Potential Criteria Pollutant Emissions								
PM (tpy)	PM_{10} (tpy)	$PM_{2.5}$ (tpy)	SO_2 (tpy)	NO_x (tpy)	VOC (tpy)	CO (tpy)	Lead (tpy)	Total HAPs (tpy)
223.51	202.32	202.32	1.79	175.53	99.41	171.90	0.00	15.03
2025 Reported Actual Emissions								
58.83	49.29	49.29	0.68	81.59	35.48	68.98	0.00	6.35

8.67 tpy is the highest single HAP PTE, Formaldehyde.

Removed Equipment

EP03 #3 Kettle: 02-A-738-S1 was rescinded on 12/17/2025. This equipment was replaced by the new units EP-74 and EP-75.

The following units were not included in the application and removed from the insignificant activities list:

EU-71	Process Water Heat Exchanger
EU-72	Line #1 Inkjet Printer System
EU-73	Line #2 Inkjet Printer System

Emission Point/Unit Information

- EU-01 and EU-04 are not subject to NESHAP JJJJJJ because they are limited to natural gas as fuel. These emission units would need to be considered for NESHAP DDDDD applicability if this facility were to become a major source of HAPs.
- EU-01 is subject to a weekly opacity monitoring requirement to ensure compliance with the 20% opacity limit set by the construction permit.

- EU-05 is subject to weekly opacity monitoring requirement to ensure compliance with the 7% opacity limit required by NSPS OOO. Precontrol emissions exceed the major source threshold when using the emission limits for PM. The facility provided CAM spreadsheet use 0.002 lb/ton when calculating PM emissions. Precontrol emissions do not exceed the major source threshold. 2005 stack test results support this. Result averages from 2005 were 0.09 lb/hr, 9% of the emission limits A facility O&M Plan is required. Stack testing will not be required during this renewal due to the margin of compliance from the previous test and weekly opacity monitoring requirement.

- EP-06 PM emissions are controlled by baghouse, CE-06. Weekly opacity monitoring is required. Stack testing for PM was completed for this emission point in 2005 and resulted in an average rate of 0.55lb/hr, 21% of the current emission limit. Periodic monitoring guidance suggests one test when using values from the previous stack test. One test will be required for PM/PM_{10}. CAM is required for CE-06.

- EP-07 vents two emission units EU-07A and 07B. PM emission are controlled by baghouse CE-07. Precontrol emissions do not exceed the major source on a per unit basis when using 2005 stack test results. 2005 stack test results averaged 0.39 lb/hr, 38% of the emission limit. CAM does not apply when using historic stack test data. Periodic monitoring recommends one stack test for PM during this renewal when using the emission limit. The operating conditions meet the requirements of a Facility O&M, no additional plan will be required.

- EP-08 is subject to CAM because precontrol emission exceed the major source threshold. Stack testing was most recently completed for EP-08 in 2008, resulting in an average of 0.36 lb/hr or 64% of the emission limit. Periodic monitoring guidance suggests one test when using values from the previous stack test. One test will be required for PM.

- EP-09 - CAM is required for CE-09. Opacity monitoring is completed daily as part of the CAM plan. This satisfies the weekly opacity monitoring typically required for sources with opacity limits less than the statewide standard of 40%. Stack testing was most recently completed in 2004. PM result averages were 0.91 lb/hr, 19% of the emission limit. Periodic monitoring guidance suggests one test when using values from the previous stack test. One test will be required for PM and PM_{10}.

- PM emissions for EP-10 are controlled by baghouse, CE-10. This is an internally vented source, therefore CAM does not apply and testing will not be required during this renewal. A Facility O&M plan is required for this equipment. Testing is not recommended based on periodic monitoring guidance.

- The construction permit for EP-11 was modified since the previous renewal. Changes included amendments to the maximum rated capacities, emission limits, operating limits, and monitoring and testing conditions. Wax has not been used at this point. The construction permit modification requires testing for PM, CO, VOC and HAP. No additional testing will be required by the Title V permit during this renewal.

- PM emissions for EP-12 are controlled by baghouse, CE-12. Precontrol emissions do not exceed the major source threshold when using stack test data from 2005, therefore CAM does not apply. Stack test results averaged 0.05 lb/hr, 4% of the emission limit. Periodic monitoring guidance recommends one test for PM based on the emission limit. However, due to the large margin of compliance in 2005 stack testing will not be required. A facility O&M plan has been required to remain consistent with the previous renewal.

- EP-13: Precontrol PM emission do not exceed the major source threshold. CAM does not apply. Stack testing is not recommended based on periodic monitoring guidance. A facility O&M has been required.

- The construction permit for EP-14 was updated since the previous renewal. Changes included amending maximum rated capacity, emission limits, operation limits, and monitoring and testing requirements. Wax has not been used at this point. The construction permit requires stack testing for PM, CO, VOC and HAP. No additional monitoring will be required by the Title V permit.

- EP-15 vents internally. CAM does not apply to units that do not vent directly to the atmosphere. Periodic monitoring guidance recommends stack testing and a Facility O&M plan. Testing will not be required for PM because baghouses regularly control PM emission well below the emission limit of 0.1gr/dscf. A Facility O&M will not be required because the operating conditions meet that requirement.

- EP-17: Precontrol PM emission do not exceed the major source threshold. CAM does not apply. Stack testing is not recommended based on periodic monitoring guidance. A facility O&M has been required.

- EP-18 was previously stack tested in 2004 for PM. Results at the time exceeded the emission limit. The construction permit was modified to increase the emission limit. Periodic monitoring guidance recommends one stack test for PM and PM_{10} and will be required during this renewal. CAM is required for the baghouse, CE-18.

- EP-28 is subject to NSPS OOO and an opacity limit of 7%. The required CAM plan includes daily opacity monitoring . This satisfies the weekly opacity monitoring typically required for sources with opacity limits less than the statewide standard of 40%. EP-28 was most recently tested for PM in 2005. Result averages were 0.28 lb/hr or 10% of the emission limit. Periodic monitoring guidance suggests one test for PM and PM_{10} when using emission limits. Testing will be required during this renewal.

- EP-29 is subject to NSPS UUU and an opacity limit of 10%. The required CAM plan includes daily opacity monitoring . This satisfies the weekly opacity monitoring typically required for sources with opacity limits less than the statewide standard of 40%. EP-29 was most recently tested for PM in 2005. Result averages were 0.019 gr/dscf or 76% of the emission limit. Periodic monitoring guidance recommends one stack test for PM and will be required during this renewal. CAM is required for the baghouse, CE-29

- EP-30 consists of 2 emission units, EU-30A and 30B each controlled by individual baghouses. Precontrol emissions exceed the major source threshold when using the emission limits. However, potential emissions do not exceed the major source threshold on a per unit basis when using stack test data from 2005. CAM does not apply. Test results averaged 0.35 lb/hr, 16% of the emission limit. Periodic monitoring guidance suggests one test for PM and PM_{10} when using the emission limits. One test will be required for PM and PM_{10}. A facility O&M plan is required for the baghouses along with weekly opacity monitoring.

- EP-34, #1 Landplaster storage bin, is controlled by baghouse, CE-34. 2024 Field Office inspection report dated 2/21/2024, noted this equipment had been idled and it is unlikely to be used in the future. This is supported by 2024 SLEIS data.

  Precontrol PTE exceeds the major source threshold when using the statewide standard emission limit of 0.1 gr/dscf. However, baghouses regularly control particulate well below this level. The facility provided CAM calculations use 1 lb/hr for uncontrolled emissions which does not exceed the major source threshold. This emission factor is also used when determining the annual emission inventory and is based on EPA emission factors. A Facility O&M plan is not required because the operating conditions meet the requirements of a Facility O&M plan.

- EP-35, EP-36, EP-50: The annual maintenance requirement has been updated to 1 year + 30 days to match the revised NESHAP requirements.

- EP-47, Dunnage Processing was previously stack tested for PM in 2002. Test results averaged 0.22 lb/hr, 14% of the emission limit. Facility provided CAM calculations show precontrol emission do not exceed the major source threshold using historic stack test data. Periodic monitoring suggests one stack test for PM when using the emission limit. Testing will be required during this renewal since the unit has not been tested in 24 years. A Facility O&M Plan is required.

- EP-49: The emission limit of 0.1 gr/dscf and a control efficiency of 75% was used when determining precontrol PTE, as provided in the application. CAM does not apply because precontrol emission do not exceed the major source threshold. Periodic monitoring guidance recommends a Facility O&M. No testing is required during this renewal.

- EP-56, Office emergency generator is subject to NSPS JJJJ and NESHAP ZZZZ.

- EU-60 #2 Kettle/Calciner was tested for PM and Opacity in 2016. Test averages were 0.0008 gr/dscf, 2% of the emission limit and 0% opacity. Weekly opacity monitoring is required.

Precontrol emissions do not exceed the major source threshold when using this value and an assumed control efficiency of 99% for baghouse CE-60. A Facility O&M Plan will not be required based on the operating conditions meeting this requirement. No additional monitoring is required.

- EP-61: AP42 emission factors were used to determine precontrol PM emission. CAM does not apply because precontrol emission do not exceed the major source threshold. A Facility O&M is not required based on the operating conditions meeting this requirement. Testing for PM is not recommended and will not be required during this renewal.

- EP-70 was previously tested in 2020 at 0.0007 gr/dscf, 2% of the emission limit. Weekly opacity monitoring is required. Precontrol emissions do not exceed the major source threshold when using this value and an assumed control efficiency of 99% for baghouse CE-70. A Facility O&M Plan is not required based on the operating conditions meeting this requirement. No additional monitoring is required.

- EP-74 and EP-75, #3 North and South Kettle/Calciners are new units to this permit. These units are subject to NSPS UUU. Both emission points require testing for PM (Federal) and Opacity, required by the construction permit. Startup has not occurred as of 4/16/2026. Weekly opacity monitoring is required. The Title V permit will not require any additional testing. CAM was determined as not required based on calculations for similar units, EP-70 and EP-60. A facility O&M plan is not required based on the operating conditions meeting this requirement.

- EP-B8 was moved from the insignificant equipment list to the significant equipment list. This facility is an area source of HAPs, making this unit subject to 40 CFR 63 Subpart CCCCCC.

Monitoring Summary

Emission Point	Emission Unit Description	Construction Permit	Monitoring	NESHAP/ NSPS
EP-01	#1 Kettle	97-A-1027	Weekly Opacity	-
EP-04	#4 Kettle	88-A-192-S3		-
EP-05	#3 Roller Grinding Mill	88-A-193-S1	Weekly Opacity, Facility O&M	NSPS OOO
EP-06	#4 Gypsum Calcining Kettle	88-A-194-S3	Test: PM/PM10, CAM	NSPS UUU
EP-07	#1 Roller Grinding Mill	02-A-739-S1	Test: PM, *	-
	#2 Roller Grinding Mill			-
EP-08	Cooling Belt Conveyor	02-A-740-S3	Test: PM, CAM	-
EP-09	Rock Dryer Burner	87-A-146-S3	Test: PM/PM10, CAM	-
	Gypsum Ore Rotary Dryer			NSPS UUU
EP-10	Stucco Storage Bins	02-A-741	Facility O&M	-
EP-11	#1 Board Kiln	81-A-072-S7	Test: See Permit	-
EP-12	#1 End Saw	02-A-742	Facility O&M	-
EP-13	#2 End Saw	87-A-147-S2	Facility O&M	-
EP-14	#2 Board Kiln	88-A-190-S9	Test: See Permit	-
EP-15A	#1 Mixer	04-A-611-S1	None*	-

Emission Point	Emission Unit Description	Construction Permit	Monitoring	NESHAP/ NSPS
EP-17	#2 Stucco Storage Bin	88-A-196-S2	Facility O&M	-
EP-18	#2 Stucco System	88-A-195-S4	Test: PM/PM10, CAM	-
EP-28	Rock Crusher	96-A-363-S1	Weekly Opacity, Test: PM/PM10, CAM	NSPS OOO
EP-29	#4 Kettle Hot Pit	96-A-892-S3	Weekly Opacity, Test: PM, CAM	NSPS UUU
EP-30	#1 Kettle Hot Pit	97-A-1026-S2	Weekly Opacity Test: PM/PM10, Facility O&M	NSPS UUU
EP-34	#1 Landplaster Storage Bin	01-A-361	None*	-
EP-35	Mine Emergency Hoist	-	-	NESHAP ZZZZ
EP-36	Diesel Fire Pump	-	-	
EP-47	Dunnage Processing	02-A-362	Test: PM, Facility O&M	-
EP-49	FST System	04-A-612-S1	Facility O&M	-
EP-50	LPG Generator	-	-	NESHAP ZZZZ
EP-56	Office Emergency Generator	-	-	
EP-60	#2 Kettle/Calciner	15-A-558-S2	Weekly Opacity, *	NSPS UUU
EP-61	Air Slide	19-A-242	None*	-
EP-70	#2S Kettle/Calciner	19-A-241	Weekly Opacity, *	NSPS UUU
EP-74	#3N Kettle/Calciner	25-A-049	Weekly Opacity, Test: See Permit, *	NSPS UUU
EP-75	#3S Kettle/Calciner	25-A-050	Weekly Opacity, Test: See Permit, *	NSPS UUU
EP-B8	500 Gallon Gasoline Tank	-		NESHAP CCCCCC

*Operating conditions meet the requirement of a Facility O&M Plan.

Due to the numerous testing requirements listed within the permit, testing will be required to be completed within 3.5 years of permit issuance.