Iowa Department of Natural Resources 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-012R3

Expiration Date: May 11, 2026

Permit Renewal Application Deadline: December 11, 2025

EIQ Number: 92-5176

Facility File Number: 29-06-001

Responsible Official

Name: Kirk Hillman Title: Plant Manager

Mailing Address: 13425 210th Street, Mediapolis, IA 52637

Phone #: (319) 394-2443

Permit Contact Person for the Facility

Name: Mike Brown

Title: Environmental Manager

Mailing Address: 13425 210th Street, Mediapolis, IA 52637

Phone #: (319) 394-2451

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

For the Director of the Department of Natural Resources

Mainil Stein 05/11/2021

Marnie Stein, Supervisor of Air Operating Permits Section Date

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Abbreviations

acfm	.actual cubic feet per minute
CFR	.Code of Federal Regulation
CE	.control equipment
CEM	.continuous emission monitor
°F	.degrees Fahrenheit
	.emissions inventory questionnaire
EP	.emission point
EU	.emission unit
	grains per dry standard cubic foot
gr/100 cf	grains per one hundred cubic feet
IAC	.Iowa Administrative Code
IDNR	.Iowa Department of Natural Resources
MVAC	.motor vehicle air conditioner
NAICS	.North American Industry Classification System
NSPS	.new source performance standard
ppmv	.parts per million by volume
lb/hr	.pounds per hour
lb/MMBtu	pounds per million British thermal units
SCC	.Source Classification Codes
scfm	standard cubic feet per minute
SIC	.Standard Industrial Classification
TPY	.tons per year
	.United States Environmental Protection Agency
Pollutants	
PM	
PM_{10}	particulate matter ten microns or less in diameter
SO ₂	.sulfur dioxide
NO_x	.nitrogen oxides
VOC	volatile organic compound
CO	
HAP	.hazardous air pollutant
	-

I. Facility Description and Equipment List

Facility Name: United States Gypsum Co. - Sperry

Permit Number: 03-TV-012R3

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-03	EU-03A	#3 Gypsum Calcining Kettle	02-A-738-S1
	EU-03B	#3 Kettle Burner	
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
ED 07	EU-07A	#1 Roller Grinding Mill	02-A-739-S1
EP-07 EU-07B		#2 Roller Grinding Mill	02-A-739-S1
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-S7
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-S9
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-18	#2 Stucco System	88-A-195-S4
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-30	#1 Kettle Hot Pit	97-A-1026-S2
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	-
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-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
EU-71	Process Water Heat Exchanger
EU-72	Line #1 Inkjet Printer System
EU-73	Line #2 Inkjet Printer System

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-012R3

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

Permit Duration

The term of this permit is: 5 Years Commencing on: May 11, 2021 Ending on: May 11, 2026

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

Emission Limits

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

Opacity (visible emissions): 40% opacity

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

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

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

Particulate Matter:

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

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

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

<u>Fugitive Dust:</u> 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-012R3

Emission Point ID Number: EP-01

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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 (SO₂) 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Opacity:

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 22.108(14)

Agency Approved Operation & Maintenance Plan Required?

Facility Maintained Operation & Maintenance Plan Required?

Yes □ No ☑

Compliance Assurance Monitoring (CAM) Plan Required?

Yes □ No ☑

Authority for Requirement: 567 IAC 22.108(3)

Associated Equipment

Emission Unit	Emission Unit Control Raw Description Equipment Material			Rated Capacity	Construction Permit
EU-03	#3 Gypsum Calcining	CE-03:	Ore	18 tons/hr	02-A-738-S1
EU-03	Kettle	Baghouse	Natural Gas	12 MMBtu/hr	02-A-736-31

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-738-S1

567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.72 lb/hr

Authority for Requirement: DNR Construction Permit 02-A-738-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.72 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 02-A-738-S1

567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂) Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 02-A-738-S1

567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x) Emission Limit(s): 3.16 lb/hr

Authority for Requirement: DNR Construction Permit 02-A-738-S1

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

Operational Limits & Requirements

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

Operating Limits:

A. The fuel shall be limited to natural gas only.

Reporting & Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. Maintain records as to the type of fuel used (i.e. fuel bill).

Authority for Requirement: DNR Construction Permit 02-A-738-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 97 Stack Opening, (inches, dia.): 30 Exhaust Flow Rate (scfm): 3,000 Exhaust Temperature (°F): 300

Discharge Style: Vertical

Authority for Requirement: DNR Construction Permit 02-A-738-S1

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

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Tri I	owner/operator	C .1 .	•	1 11		1	. 1	•, •	•	1 , 1	1 1
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1116	owner/operator	Of this	equipmeni	Siluit	compi	y vviiii i	uu	monitoring	requirements	usieu	Delow.
	1	9	1 1			•		U	1		

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.

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"

Pollutant: Particulate Matter (PM₁₀)

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 (SO₂) Emission Limit(s): 500 ppmv

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

567 IAC 23.3(3)"e"

Operational Limits & Requirements

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

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

⁽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).

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes No No
Facility Maintained Operation & Maintenance Plan Required?	Yes 🗌 No 🔀
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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 (PM₁₀) Emission Limit(s): 0.95 lb/hr

Authority for Requirement: DNR Construction Permit 88-A-193-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.95 lb/hr, 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

Operational Limits & Requirements

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

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

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Opacity:

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 22.108(14)

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🛛 No 🗌
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

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

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

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

Associated Equipment

Emission	Emission Unit Description	Control	Raw	Rated	Construction
Unit		Equipment	Material	Capacity	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 (PM₁₀) Emission Limit(s): 2.58 lb/hr

Authority for Requirement: DNR Construction Permit 88-A-194-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.58 lb/hr, 0.040 gr/dscf

Authority for Requirement: DNR Construction Permit 88-A-194-S3

567 IAC 23.1(2)"ppp", 40 CFR Subpart UUU

Operational Limits & Requirements

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

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

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Compliance Assurance Monitoring (CAM) Plan Required? See Appendix A	Yes 🛛 No 🗌

Authority for Requirement: 567 IAC 22.108(3)

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Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-07A	#1 Roller Grinding Mill	CE-07:	Gypsum	25 tons/hr	02-A-739-S1
EU-07B	#2 Roller Grinding Mill	Baghouse	Gypsum	25 tons/hr	02-A-739- 3 1

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"

Pollutant: Particulate Matter (PM₁₀)

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 & Requirements

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. These records shall show the following:

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

⁽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).

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

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

Associated Equipment

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

567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM₁₀)

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"

⁽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).

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

 Agency Approved Operation & Maintenance Plan Required?
 Yes □ No ⋈

 Facility Maintained Operation & Maintenance Plan Required?
 Yes □ No ⋈

 Compliance Assurance Monitoring (CAM) Plan Required?
 Yes ⋈ No □

 See Appendix A

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-09B	Gypsum Ore Rotary Dryer	CE-09:	Gypsum	110 tons/hr	87-A-146-S3
EU-09A	Rock Dryer Burner	Baghouse	Natural Gas	30.1 MMBtu/hr	6/-A-140-33

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 (PM₁₀)

Emission Limit(s): 4.8 lb/hr

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 4.8 lb/hr, 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: Sulfur Dioxide (SO₂)

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 & Requirements

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

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

Operating Limits:

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

Reporting & Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- 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

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Compliance Assurance Monitoring (CAM) Plan Required? See Appendix A	Yes 🛛 No 🗌
Authority for Requirement: 567 IAC 22.108(3)	

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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"

Pollutant: Particulate Matter (PM₁₀)

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"

⁽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).

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🛛 No 🗌
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

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

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

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

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Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
			Natural Gas	110 MMBtu/hr	
EU-11	#1 Board Kiln	NA	Mold Resistant	350 lb/hr	81-A-072-S7
			Interior Mat	4,420 lb/hr	
			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.

Pollutant: Opacity

Emission Limit(s): 40 % (1)

Authority for Requirement: DNR Construction Permit 81-A-072-S7

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 (PM₁₀) Emission Limit(s): 16.26 lb/hr

Authority for Requirement: DNR Construction Permit 81-A-072-S7

Pollutant: Particulate Matter (PM)

Emission Limit(s): 16.26 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 81-A-072-S7

567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂) Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 81-A-072-S7

567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x) Emission Limit(s): 16.50 lb/hr

Authority for Requirement: DNR Construction Permit 81-A-072-S7

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.08 lb/MMBtu (Regular Drying Process) (2)

0.0277 lb/lb (Mold Resistant Material Drying) 0.000127 lb/lb (Combined Interior Mat Drying) (3) 0.00014 lb/lb (Combined Exterior Mat Drying) (3)

Authority for Requirement: DNR Construction Permit 81-A-072-S7

These limits are for regular paper-based dry wall (material without any additives) process only, not including the process of drying mold resistant materials, combined interior mat or combined exterior mat.

(3) VOC emissions are included in regular glass mat material to avoid double-counting.

Pollutant: Formaldehyde

Emission Limit(s): 0.0054 lb/MMBtu (Regular Drying Process) (2)

0.00531 lb/lb (Mold Resistant Material Drying) 0.000526 lb/lb (Combined Interior Mat Drying) (3) 0.00107 lb/lb (Combined Exterior Mat Drying) (3)

Authority for Requirement: DNR Construction Permit 81-A-072-S7

These limits are for regular paper-based dry wall (material without any additives) process only, not including the process of drying mold resistant materials, combined interior mat or combined exterior mat.

(3) VOC emissions are included in regular glass mat material to avoid double-counting.

Operational Limits & Requirements

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

Operating Limits:

- A. This emission unit is limited to burning on natural gas only.
- B. The owner or operator shall not use regular glass mat on both sides of a product (back and front) by August 1, 2015.
- C. The total amount of mold resistant materials used in #1 Board Kiln (EU 11) and #2 Board Kiln (EU 14) shall not exceed 832,000 pounds per 12-month rolling period.
- D. The maximum amount of combined interior mat used in #1 Board Kiln (EU 11) shall not exceed 1,320,000 pounds per 12-month rolling period.
- E. The maximum amount of combined exterior mat used in #1 Board Kiln (EU 11) shall not exceed 2,800,000 pounds per 12-month rolling period.
- F. The facility shall only use the coated glass mat material in conjunction with the regular glass mat material.

Reporting & Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall determine the cumulative amount of mold resistant materials used in #1 Board Kiln (EU 11) and #2 Board Kiln (EU 14) on a rolling-12-month basis.
- B. The owner or operator shall determine the cumulative amount of combined interior mat used in #1 Board Kiln (EU 11) on a rolling-12-month basis.
- C. The owner or operator shall determine the cumulative amount of combined exterior mat used in #1 Board Kiln (EU 11) on a rolling-12-month basis.

Authority for Requirement: DNR Construction Permit 81-A-072-S7 (issued 05/21/2015)

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: 567 IAC 22.108(3)

Authority for Requirement: DNR Construction Permit 81-A-072-S7

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes ∐ No ⊠
Facility Maintained Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

Associated Equipment

Emission	Emission Unit Description	Control	Raw	Rated	Construction
Unit		Equipment	Material	Capacity	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"

Pollutant: Particulate Matter (PM₁₀)

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"

⁽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).

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🛛 No 🗌
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

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

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

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

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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"

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"

⁽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).

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🛛 No 🗌
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

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

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

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

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
			Natural Gas	100 MMBtu/hr	
EU-14	#2 Kiln	NA	Mold	350 lb/hr	88-A-190-S9
			Resistant		

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-190-S9

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 (PM₁₀) Emission Limit(s): 20.28 lb/hr

Authority for Requirement: DNR Construction Permit 88-A-190-S9

Pollutant: Particulate Matter (PM)

Emission Limit(s): 20.28 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 88-A-190-S9

567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂) Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 88-A-190-S9

567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x) Emission Limit(s): 12.0 lb/hr

Authority for Requirement: DNR Construction Permit 88-A-190-S9

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.08 lb/MMBtu (Regular Drying Process) (2)

0.0277 lb/lb (Mold Resistant Material Drying)

Authority for Requirement: DNR Construction Permit 88-A-190-S9

(2) These limits are for regular paper-based dry wall (material without any additives) process only, not including the process of drying mold resistant materials, combined interior mat or combined exterior mat.

Pollutant: Formaldehyde

Emission Limit(s): 0.0054 lb/MMBtu (Regular Drying Process) (2)

0.00531 lb/lb (Mold Resistant Material Drying)

Authority for Requirement: DNR Construction Permit 88-A-190-S9

(2) These limits are for regular paper-based dry wall (material without any additives) process only, not including the process of drying mold resistant materials, combined interior mat or combined exterior mat.

Operational Limits & Requirements

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

Operating Limits:

- A. This emission unit is limited to burning on natural gas only.
- B. The total amount of mold resistant materials used in #1 Board Kiln (EU 11) and #2 Board Kiln (EU 14) shall not exceed 832,000 pounds per 12-month rolling period.

Reporting & Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. After the first twelve months of permit issuance (of construction permit 88-A-190-S9), the owner or operator shall determine the cumulative amount of mold resistant materials used in #1 Board Kiln (EU 11) and #2 Board Kiln (EU 14) on a rolling-12-month basis.
- B. The owner or operator shall calculate and record the VOC and formaldehyde emission rate for each material listed in Condition 10 in construction permit 88-A-190-S9. The owner or operator shall keep records of all calculations and supporting documents used to determine these emission rates.

Authority for Requirement: DNR Construction Permit 88-A-190-S9 (issued 05/21/2015)

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-S9

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

Monitoring Requirements

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

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

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

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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"

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 & Requirements

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

Operating Limits:

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

Reporting & Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. These records shall show the following:

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

⁽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).

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

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

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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"

Pollutant: Particulate Matter (PM₁₀) 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"

⁽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).

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🛛 No 🗌
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

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

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

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

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		21466	io tolis/ili	0011170 51

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"

Pollutant: Particulate Matter (PM₁₀)

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

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

567 IAC 23.3(2)"a"

⁽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).

Operational Limits & Requirements

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

Operating Limits:

A. Baghouse must operate within the pressure drop range given in Appendix A.

Reporting & Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Compliance Assurance Monitoring (CAM) Plan Required? See Appendix A	Yes 🛛 No 🗌

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

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP-20	EU-20	Gypsum Rock Storage Pile	NA	Gypsum	1,248,000 tons/yr	NA
EP-21	EU-21	Gypsum Rock Stock Pile	NA	Gypsum	200,000 tons/yr	NA
EP-22	EU-22	Cement Rock Storage Pile	NA	Cement Rock	350,000 tons/yr	NA
EP-23	EU-23	Synthetic Gypsum Storage Pile	NA	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(s): See Plantwide Conditions 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 🖂

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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 (PM₁₀)

Emission Limit(s): 2.83 lb/hr

Authority for Requirement: DNR Construction Permit 96-A-363-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.83 lb/hr, 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

Operational Limits & Requirements

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

NSPS Applicability:

This emission unit is subject to NSPS Subparts OOO and A.

Authority for Requirement: DNR Construction Permit 96-A-363-S1

567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Compliance Assurance Monitoring (CAM) Plan Required? See Appendix A	Yes 🛛 No 🗌

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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 & Requirements

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

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

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🛛 No 🗌
See Appendix A	

Associated Equipment

Emissior Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-30A	#1 Kettle	CE-30A: Baghouse	Cymanym	35 tons/hr	
EU-30B	#1 Kettle Hot Pit	CE-30B: Cartridge Dust Collector	Gypsum Ore	35 tons/hr	97-A-1026-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): 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 (PM₁₀) Emission Limit(s): 2.19 lb/hr

Authority for Requirement: DNR Construction Permit 97-A-1026-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.19 lb/hr, 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

Operational Limits & Requirements

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

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).

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Authority for Requirement: DNR Construction Permit 97-A-1026-S2

567 IAC 23.1(2)"ppp", 40 CFR 60 Subpart UUU

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Opacity:

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 22.108(14)

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🛛 No 🗌
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

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

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

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

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

Associated Equipment

Pollutant: Fugitive Dust

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP-32	EU-32	Unprocessed Waste Wallboard Pile	NA	Wallboard	60,000 tons/yr	NA
EP-33	EU-33	Processed Waste Wallboard Pile	NA	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.

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Emission Limit(s): See Plantwide Conditions
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 🖂

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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"

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 & Requirements

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

Operating Limits:

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

Reporting & Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

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

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

⁽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).

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🛛 No 🗌
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

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

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

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

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"

Operational Limits & Requirements

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

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 80.510(b) 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 annually, 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 annually, whichever comes first, and replace as necessary.
- C. Inspect all hoses and belts every 500 hours of operation or annually, 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 🖂

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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"

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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⁽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).

Midmiding requirements	Monitoring	Requirement	S
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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.

Associated Equipment

Emission	Emission Unit Description	Control	Raw	Rated	Construction
Unit		Equipment	Material	Capacity	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"

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

⁽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).

Midmiding requirements	Monitoring	Requirement	S
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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.

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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 (SO₂) Emission Limit(s): 500 ppmv

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

Operational Limits & Requirements

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

NESHAP 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.

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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 annually, 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 annually, whichever comes first, and replace as necessary.
- C. Inspect all hoses and belts every 500 hours of operation or annually, 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 22 108(3)	

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	Permit
EU-56	Office Emergency Generator	NA	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 (SO₂) Emission Limit(s): 500 ppmv

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

Operational Limits & Requirements

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

NESHAP 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
$25 < HP \le 500$	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	Engine Was Built On Or
Power	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.

report according to the re	equirements in $40 \text{ CFR} 60.4245(e)(1)$ through (3). $40 \text{ CFR} 60.4245(e)(1)$
Authority for Requirement:	1
	567 IAC 23.1(2)"zzzz"

Monitoring Requirements

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

	1	9	1 1		1 2		0 1		
Agency A	Approved	Opera	tion & Ma	intenan	ce Plan Requ	ired?		Yes 🗌 No 🖂	
Facility I	Maintaine	d Ope	ration & M	laintena	ance Plan Rec	quired?		Yes 🗌 No 🖂	
Complia	nce Assur	ance N	Ionitoring	(CAM)	Plan Require	ed?		Yes 🗌 No 🖂	
Authority	for Requ	iremen	t: 567 IAC	22.108(3)				

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-60	#2 Kettle/Calciner	CE-60:	Ore	18 tons/hr	15-A-558-S2
		Baghouse	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): 0.092 g/dscm (1)

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

567 IAC 23.1(2)"ppp" 40 CFR 60 Subpart UUU

 $^{(1)}$ 0.092 grams per dry standard cubic meter (g/dscm) = 0.040 grains per dry standard cubic foot (gr/dscf).

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"

Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. The pressure drop across the baghouse (CE-60) shall be maintained between 0.5 and 6 inches H₂O.
- 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" H₂O), 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 in Permit Condition 1 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).

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

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🛛 No 🗌
Compliance Assurance Monitoring (CAM) Plan Required?	Yes ☐ No ⊠

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

The data pertaining to the plan must 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.

Associated Equipment

Emission	Emission Unit	Control	Raw	Rated	Construction
Unit	Description	Equipment	Material	Capacity	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"

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"

⁽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).

Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. The pressure drop across the bin vent filters (CE-61) shall be maintained between 0.5 and 8 inches H₂O.
- 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" H₂O), 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 in Permit Condition 1 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

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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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🛛 No 🗌
Compliance Assurance Monitoring (CAM) Plan Required?	Yes ☐ No ⊠

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-70

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
		CE-70:	Ore	18 tons/hr	
EU-70	#2S Kettle/Calciner	Baghouse	Natural Gas	7.5 MMBtu/hr	19-A-241

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): 0.092 g/dscm (1)

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

567 IAC 23.1(2)"ppp" 40 FR 60 Subpart UUU

 $^{(1)}0.092$ grams per dry standard cubic meter (g/dscm) = 0.040 grains per dry standard cubic foot (gr/dscf).

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"

Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. The pressure drop across the baghouse (CE-70) shall be maintained between 0.5 and 6 inches H₂O.
- 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" H₂O), 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 in Permit Condition 1 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

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🛛 No 🗌
Compliance Assurance Monitoring (CAM) Plan Required?	Yes ☐ No ⊠

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-B8

Associated Equipment

]	Emission	Emission Unit	Control	Raw	Rated	Construction
	Unit	Description	Equipment	Material	Capacity	Permit
	EU-B8	500 Gallon Gasoline Tank	NA	Gasoline	500 gal	-

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 & Requirements

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

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

Monitoring Requirements

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

	1	J	1 1	1 2	0 1	
Agency A	approved (Operat	ion & Maintenan	ce Plan Required?		Yes 🗌 No 🖂
Facility N	Aaintaine	d Opera	ation & Maintena	nce Plan Required?		Yes 🗌 No 🖂
Complian	nce Assura	ance M	onitoring (CAM)	Plan Required?		Yes 🗌 No 🖂
Authority	for Requi	rement:	567 IAC 22.108(3	3)		

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

- 1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). 567 IAC 22.116(2)
- 2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permitting & Standards Branch, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). 567 IAC 22.105

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

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

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

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

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

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

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein. 1. Information from the use of the following methods is presumptively credible evidence of

- a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
- b. Compliance test methods specified in 567 Chapter 25; or

whether a violation has occurred at a source:

- c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
- 2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a. Any monitoring or testing methods provided in these rules; or
 - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. 567 IAC 21.5(1)-567 IAC 21.5(2)

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

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

2. Excess Emissions Reporting

- a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:
 - i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
 - ii. The estimated quantity of the excess emission.
 - iii. The time and expected duration of the excess emission.
 - iv. The cause of the excess emission.
 - v. The steps being taken to remedy the excess emission.
 - vi. The steps being taken to limit the excess emission in the interim period.
- b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:
 - i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
 - ii. The estimated quantity of the excess emission.
 - iii. The time and duration of the excess emission.
 - iv. The cause of the excess emission.
 - v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
 - vi. The steps that were taken to limit the excess emission.
 - vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. 567 IAC 24.1(1)-567 IAC 24.1(4)

- 3. Emergency Defense for Excess Emissions. For the purposes of this permit, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:
 - a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - b. The facility at the time was being properly operated;
 - c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
 - d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

- 1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.

- b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
- d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 22.144(455B));
- e. The changes comply with all applicable requirements.
- f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change. 567 IAC 22.110(1)
- 2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. 567 IAC 22.110(2)
- 3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). 567 IAC 22.110(3)
- 4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. 567 IAC 22.110(4)
- 5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. 567 IAC 22.108(11)

G18. Duty to Modify a Title V Permit

- 1. Administrative Amendment.
 - a. An administrative permit amendment is a permit revision that does any of the following:
 - i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the

source:

- iii. Require more frequent monitoring or reporting by the permittee; or iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
- b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
- c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.
- 2. Minor Title V Permit Modification.
 - a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
 - i. Do not violate any applicable requirement;
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
 - v. Are not modifications under any provision of Title I of the Act; and vi. Are not required to be processed as significant modification under rule 567 22.113(455B).
 - b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
 - ii. The permittee's suggested draft permit;
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
 - c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the

change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. 567 IAC 22.111-567 IAC 22.113

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

- 1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
- 2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
- 3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
- 4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
- 5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. 40 CFR part 82

G24. Permit Reopenings

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

G25. Permit Shield

- 1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit; or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
- 2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
- 3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act:
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. 567 IAC 22.108 (18)

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

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

Stack Test Review Coordinator Iowa DNR, Air Quality Bureau

Wallace State Office Building

502 E 9th St.

Des Moines, IA 50319-0034

(515) 725-9526

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

G31. Prevention of Air Pollution Emergency Episodes

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

G32. Contacts List

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

Iowa Compliance Officer

Air Branch

Enforcement and Compliance Assurance Division

U.S. EPA Region 7

11201 Renner Blvd.

Lenexa, KS 66219

(913) 551-7020

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

Chief, Air Quality Bureau Iowa Department of Natural Resources Wallace State Office Building

502 E 9th St.

Des Moines, IA 50319-0034

(515) 725-8200

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

Field Office 1

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

Field Office 3

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

Field Office 5

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

Polk County Public Works Dept.

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

Field Office 2

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

Field Office 4

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

Field Office 6

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

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	Control Equipment
		No.	
06	#4 Gypsum Calcining Kettle	88-A-194-S3	Flex kleen pulse jet
08	Cooling Belt Conveyor	02-A-740-S3	Flex kleen pulse jet
09	Gypsum Ore Rotary Dryer	87-A-146-S3	Flex kleen 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:

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 http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.a

40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.ooo

40 CFR 60 Subpart UUU - Standards of Performance for Calciners and Dryers in Mineral Industries

http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.uuu

40 CFR 63 Subpart A – General Provisions http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.10.63.a

40 CFR 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.14.63.zzzz

40 CFR 63 Subpart CCCCCC—National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities https://www.ecfr.gov/cgi-bin/text-idx?SID=eaf2156a2e194335bee65b121e159b00&mc=true&node=sp40.16.63.ccccc&rgn=div6

40 CFR 60 Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.jjjj