Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: United States Gypsum Company
Facility Location: 2110 Paragon Avenue, Fort Dodge, Iowa 50501
Air Quality Operating Permit Number: 03-TV-019R2-M001
Expiration Date: October 25, 2020
Permit Renewal Application Deadline: April 25, 2020

EIQ Number: 92-5175
Facility File Number: 94-01-017

<u>Responsible Official</u>
Name: Kevin Richardson
Title: Plant Manager
Mailing Address: 2110 Paragon Avenue, Fort Dodge, IA 50501
Phone #: 515-576-4151

<u>Permit Contact Person for the Facility</u>
Name: Rodney Mullins
Title: Environmental Coordinator
Mailing Address: 2110 Paragon Avenue, Fort Dodge, IA 50501
Phone #: 515-573-1861

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

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Lori Hanson, Supervisor of Air Operating Permits Section Date

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Abbreviations

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

Pollutants
PM.....particulate matter
PM_{10}.....particulate matter ten microns or less in diameter
SO_2.....sulfur dioxide
NO_x .....nitrogen oxides
VOC.....volatile organic compound
CO.....carbon monoxide
HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: United States Gypsum Company
Permit Number: 03-TV-019R2-M001

Facility Description: Gypsum Products Manufacturing (SIC 3275)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP 1	EU 1	Quarry Haul Road	-
EP 2	EU 2	Rock Unloading	-
EP 3	EU 3	Primary Crusher	03-A-334-S1
EP 3A	EU 3A	Belt Conveyor	
EP 4	EU 4	Secondary Crusher	02-A-683-S3
	EU 5	Belt Conveyor	
EP 6	EU 6	Rock Shed	-
EP 7	EU 7	Rock Silo Screen	02-A-665-S4
EP 9	EU 8	#1 Raymond Mill	02-A-666-S3
	EU 9	#1 Raymond Mill Combustion	
EP 11	EU 10	#2 Raymond Mill	02-A-667-S3
	EU 11	#2 Raymond Mill Combustion	
EP 13	EU 12	#3 Raymond Mill	02-A-668-S3
	EU 13	#3 Raymond Mill Combustion	
EP 14	EU 14	Stucco Distribution	99-A-642-S2
EP 15	EU 15	#1 Stucco Kettle	02-A-670-S1
EP 16	EU 16	#1 Stucco Kettle Combustion	02-A-671-S2
EP 17	EU 17	#2 Stucco Kettle	02-A-672-S1
EP 18	EU 18	#2 Stucco Kettle Combustion	02-A-673-S2
EP 19	EU 19	#3 Stucco Kettle	02-A-674-S1
EP 20	EU 20	#3 Stucco Kettle Combustion	02-A-675-S2
EP 21	EU 21	#4 Stucco Kettle	96-A-148-S3
EP 22	EU 22	#4 Stucco Kettle Combustion	96-A-149-S3
EP 23	EU 23	#5 Stucco Kettle	02-A-676-S1
EP 24	EU 24	#5 Stucco Kettle Combustion	02-A-677-S2
EP 25	EU 25	Kettle Hot Pit	02-A-678-S2
EP 26	EU 26	Kettle Feed Bin	-
EP 27	EU 27	Mill Tube Mill	99-A-643-S1
EP 28	EU 28	#6 Kettle Feed Bin	-
EP 30	EU 30	Hydrocal Bulk Boiler	02-A-680-S2
EP 32	EU 31	Hydrocal Bulk Impact Mill	75-A-157-S3
	EU 32	Hydrocal Impact Mill Combustion	
EP 33	EU 33A	Hydrocal Bulk Rock Feeder	75-A-159-S5
	EU 33B	Hydrocal Bulk Rock Screen	
	EU 33C	Hydrocal Rock Bin	

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP 34	EU 34	Hydrocal Bulk Finish Grind	75-A-158-S4
EP 36	EU 36	Hydrocal Bulk Tube Mill Combustion	02-A-681
EP 37	EU 37	Land Plaster Loadout Bin	13-A-561
EP 38	EU 38	Land Plaster Truck Loading	13-A-562
EP 41	EU 41	Hydrocal Finish 1a & 1b Base Storage Bin	75-A-161-S3
EP 42	EU 42	Hydrocal Finish 2a & 2b Base Storage Bin	75-A-162-S3
EP 43	EU 43	Hydrocal Finish #1 Base Supply Bin	75-A-165-S3
EP 44	EU 44	Hydrocal Finish #2 Base Supply Bin	75-A-166-S3
EP 45	EU 45	Hydrocal Finish #3a Carbonate Supply Bin	75-A-163-S3
EP 46	EU 46	Hydrocal Finish #3b Cement Supply Bin	75-A-164-S3
EP 47	EU 47	Hydrocal Finish North Carbonate Supply Bin	75-A-168-S3
EP 48	EU 48	Hydrocal Finish South Cement Supply Bin	75-A-167-S5
EP 49	EU 49	Hydrocal Finish Bulk Loading Drag Conveyor #1	03-A-118
EP 50	EU 50B	#2 Mixer South Screen	75-A-160-S4
	EU 50D	#2 Mixer North Screen	
	EU 50F	#2 Mixer North Weigh Hopper	
	EU 50H	#2 Mixer South Weigh Hopper	
	EU 50L	Mixer #2	
	EU 50N	#2 Bag Packer	
	EU 50P	Three Waste Screw Conveyors	
	EU 50Q	Packer Spill Waster Elevator	
	EU 50S	#2 Packer Belt Conveyor	
	EU 50T	Type 1 Cement #2 Mixer Weigh Hopper	
	EU 50U	Land plaster Bag Packing Bin	
EP 52	EU 52A	Hydrocal Finish Type 1 Cement Storage Bin A	80-A-138-S5
	EU 52B	Hydrocal Finish Type 1 Cement Storage Bin B	
	EU 55	Cement Bin	
EP 56	EU 56A	#1 Mixer North Screen	02-A-684-S1
	EU 56B	#1 Mixer South Screen	
	EU 56C	#1 Mixer North Weigh Hopper	
	EU 56D	#1 Mixer South Weigh Hopper	
	EU 56E	#1 Mixer Bag Dump Station	
	EU 56F	Type 1 Cement #1 Mixer Weigh Hopper	
	EU 56G	Mixer #1	
	EU 56H	#1 Mixer East Screen	
	EU 56I	#1 Mixer East Weigh Hopper	
	EU 56J	Bulk Loading Surge Hopper	
	EU 56K	#1 Bag Packer	
	EU 56L	#1 Packer Belt Conveyor	
EP 58	EU 58	Hydrocal C Base Grinding & Conveying	93-A-159-S4
EP 59	EU 59	Hydrocal C Base Dryer	93-A-160-S5
	EU 60	Hydrocal C Base Dryer Combustion	
EP 61	EU 61A	Hydrocal C Base Tube Mill Feed Bin	93-A-161-S3
	EU 61B	Hydrocal C Base Storage Bin	
EP 62	EU 62	Hydrocal C Base Packing Supply Bin	93-A-162-S3

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP 63	EU 63	Hydrocal C Base Land plaster Bin	93-A-164-S3
EP 64	EU 64	Hydrocal Bulk Loading	93-A-165-S5
EP 65	EU 65	Hydrocal Bulk Loading Drag Conveyor #2 North	03-A-119
EP 66	EU 66	Hydrocal C Base Boiler	02-A-664
EP 67	EU 67	Hydrocal C Base Tube Mill Burner	02-A-682
EP 71	EU 71	#1 Board End Saw	92-A-531-S2
EP 73	EU 73	East Stucco Silo	04-A-958-S1
	EU 74	West Stucco Silo	
EP 76	EU 76	#1 Board Drying Kiln	85-A-094-S6
EP 78	EU 78	#1 Board PST & Mixer	03-A-335
EP 80	EU 80	Board Cut Back Saw	-
EP 82	EU 82	#1 Board HRA Ball Mill	99-A-644-S1
EP 83	EU 83	#1 Board HRA Land plaster Storage Bin	-
EP 87	EU 87	Board Stucco Surge Bin	04-A-959-S1
EP 88	EU 88	Batch Stucco Storage Bin	04-A-960-S1
EP 89	EU 89A	Finish Surge Silo	04-A-961-S1
	EU 89B	Floor Fill Surge Silo	
EP 90	EU 90	Waste Silo with Enclosed Truck Loadout	04-A-962-S1
EP 91	EU 91	Ready Mix Carbonate Supply Bin	-
EP 92	EU 92	Ready Mix Pre-Mixer	02-A-685-S2
EP 93	EU 93	Ready Mix Bag Dump Station	02-A-686-S2
EP 100	EU 100	Stockpile - North	-
EP 101	EU 101	Stockpile - South	-
EP 113	EU 113	Waste Silo Open Truck Loadout	04-A-1080
EP 118	EU 118	Mill Loadout	-
EP 122B	EU 122B	Bagging	-
EP 125B	EU 125B	Board Mixing	-
EP 125C	EU 125C	#1 Board PST	-
EP 128	EU 128	Stucco Transfer	-
EP 132	EU 132	Stockpile - West	-
EP 140	EU 140	Rock Loading Traffic	-
EP 141	EU 141	Umthun Haul Road	-
EP 143	EU 143	Haul Road	-
EP 150	EU 150	Soap	-
EP 151	EU 151	Ink Usage	-
EP 152	EU 152	Latex	-
EP 161	EU 161	Emergency Generator	12-A-203
EP 181	EU 181	Stucco Conveyor	-
EP 302	EU 302	Primary Crusher - Quarry	00-A-848-S2
EP 303	EU 303A	Belt Conveyor - Quarry	
	EU 303B	Belt Conveyor - Quarry	
EP 305	EU 305	Gypsum Storage Pile	
EP 307	EU 307	Truck Loadout	
EP 311	EU 311	Belt Conveyor	
EP 304	EU 304	Gypsum Rock Storage Pile	-

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP 308	EU 308	Haul Road - Quarry	-
EP 401	EU 401	Hydrocal Finish Bulk A-Base Supply Bin	01-A-698
EP 402	EU 402	Hydrocal Finish Bulk C-Base Supply Bin	01-A-699
EP 403	EU 403	Hydrocal Finish Bulk Type 1 Cement Supply Bin	01-A-700-S2
EP407	EU 407A	A-Base Screen	01-A-704-S2
	EU 407B	C-Base Screen	
	EU 407C	Class C Cement Screen	
	EU 407D	Stucco Screen	
	EU 407E	A-Base Weigh Hopper	
	EU 407F	C-Base Weigh Hopper	
	EU 407G	Class C Weigh Hopper	
	EU 407H	Stucco Weigh Hopper	
	EU 407I	Bulk Mixer	
	EU 407J	Bag Dump Station	
	EU 407K	Bulk Loading Conveyor	
	EU 407N	Type 1 Cement Weigh Hopper	
	EU 407O	Conveyor	
EP 409	EU 409	Hydrocal Finish Bulk C-Base Packaging Supply Bin	01-A-705
EP 411	EU 411	Waste Bin	01-A-706-S2
EP 412	EU 412A	Type 1 Cement Surge Bin	01-A-707-S2
	EU 412B	Type 1 Cement Cage Mill	

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
B-1	17,500 Gallon Diesel Tank
B-2	500 Gallon Diesel Tank
B-3	1,000 Gallon Used Oil Tank
B-6	500 Gallon Used Oil Tank
B-7	1,000 Gallon Diesel Tank
B-8	500 Gallon Gasoline Tank
B-18	1,000 Gallon Diesel Tank
EU 110	1,000 Gallon Propane Tank
EU 111	Natural Gas Pipeline
EU 121A	Hydrocal Bulk Rock Dump
EU 124A	Material Transfer/Bag Dump
EU 134	A Base & C Base Bunker
HEAT	Plant Heaters
PARTWASH	Facility Parts Washers
PLASMA	Maintenance Plasma Cutters
WELD	Facility Maintenance Welding

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

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU 91	Carbonate Bulk Storage Silo Dust Collector
EU 414	MgO Filter Receiver
EU 415	MgO SuperSak Hopper
EU 416	Fly Ash Filter Reciever
EU 417	Fly Ash SuperSak Hopper
EU 418	Vermiculite and Starch Filter Receiver
EU 419	Vermiculite SuperSak Hopper
EU 420	Starch SuperSak Hopper
EU 421	USG95 Starch SuperSak Hopper
EU 422	USG95 Starch Filter Receiver
EU 423	Perlite Bulk Storage Silo Dust Collector
EU 424	Mica Bulk Storage Silo Dust Collector
EU 425	Clay Bulk Storage Silo Dust Collector
EU 426	Hydrocal Finish Bulk Storage Surge Bin Dust Collector
EU 427	Fluidized Stucco Treater
EU 428	Natural Gas Kettle

[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 Company
Permit Number: 03-TV-019R2-M001

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: October 26, 2015
Ending on: October 25, 2020

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

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

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

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

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

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be

used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

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

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

III. Emission Point-Specific Conditions

Facility Name: United States Gypsum Company
Permit Number: **03-TV-019R2-M001**

Emission Point ID Number: EP 1

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 1	Quarry Haul Road	CE 1: Dust Suppression by Water/Chemical Agents	Gravel Road	8.525 VMT/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: Fugitive Dust
Emission Limit(s): See Plant-wide Conditions
Authority for Requirement: 567 IAC 23.3(2)"c"

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

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/operator shall record the date and time when water and/or chemicals are used to control emissions from this road.

Authority for Requirement: 567 IAC 22.108(3)

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 2

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 2	Rock Unloading	-	Rock	400 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: Fugitive Dust
Emission Limit(s): See Plant-wide 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** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 3, EP 3A

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 3	EU 3	Primary Crusher	-	Rock	400 tons/hr	03-A-334-S1
EP 3A	EU 3A	Belt Conveyor	-	Rock	400 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/Particulate Matter

Emission Limit(s): Per 567 IAC 23.1(2)"bbb" [New Source Performance Standards (NSPS) Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants)] on and after the sixtieth day after achieving the maximum production rate at which the affected facilities (Primary Crusher EU 3 & Belt Conveyor EU 3A) listed in this permit (03-A-334) will be operated, but no later than one hundred eighty (180) days after the initial startup, no owner or operator shall cause to be discharged into the atmosphere from:

(a) Any of the affected facilities listed in this permit (03-A-334) which are not enclosed in a building any fugitive emissions which exhibit greater than 10 percent opacity, except for (b).

(b) Any crushers listed in this permit (03-A-334), at which a capture system is not used and is not enclosed in a building any fugitive emissions which exhibit greater than 15 percent opacity.

(c) Any building enclosing the affected facilities listed in this permit (03-A-334) any visible fugitive emissions except emissions from a vent as defined in § 60.671 of 40 CFR.

(d) Any vent of any building enclosing the affected facilities listed in this permit (03-A-334) emissions which exceed:

- Particulate matter in excess of 0.05 grams/dscm (0.022 grains/dscf).
- Opacity greater than 7 %.

Authority for Requirement: DNR Construction Permit 03-A-334-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.

Operating Limits

A. The process rate (quantity of nonmetallic minerals processed, in tons/hr) of this system shall not exceed an average of 350 tons per hour calculated on a daily basis.

B. The facility shall operate an automated water spray system whenever the crushing equipment associated with permit is in operation.

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 facility shall record the amount of nonmetallic minerals processed, in tons, for this system on a daily basis.
B. The facility shall record the hours of operation for this system on a daily basis.
C. The facility shall calculate and record on a daily basis the average hourly production rate (tons/hr) for this system based on the daily amount of nonmetallic minerals processed and daily hours of operation.
D. The facility shall record the date and time duration of any and all occurrences in which the automated water spray system is shutdown while the crushing equipment associated with this permit is in operation.

Authority for Requirement: DNR Construction Permit 03-A-334-S1

NSPS Applicability

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

Authority for Requirement: DNR Construction Permit 03-A-334-S1
567 IAC 23.1(2) "bbb", 40 CFR 60 Subpart OOO

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 4

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 4	Secondary Crusher	CE 4: Baghouse (vents inside)	Rock	350 tons/hr	02-A-683-S3
EU 5	Belt Conveyor		Rock	350 tons/hr	

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 7% [(1)]
Authority for Requirement: DNR Construction Permit 02-A-683-S3
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

[(1)] Per 567 IAC 23.1(2) "bbb" [New Source Performance Standards (NSPS) Subpart OOO], on and after the sixtieth day after achieving the maximum production rate at which the affected facility (Secondary Conveyor, including its transfer points, and fugitive emissions escaping the baghouse capture system, or alternatively the building enclosing the Secondary Crusher and Conveyor – see 40 CFR 60.672(e)) will be operated, but no later than one hundred eighty (180) days after the initial startup, no owner or operator shall comply with the following emission limits:

(a) Fugitive emissions from the building openings (except for vents as defined in 40 CFR 60.671) must not exceed 7% opacity, and
(b) Any vent emissions of any building enclosing the affected facilities listed in this permit which exceed:
  a. Particulate matter in excess of 0.032 grams/dscm (0.014 gr/dscf)
  b. Opacity greater than 7%.

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.64 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-683-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.64 lb/hr, 0.014 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-683-S3
567 IAC 23.1(2)"bbb"

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

Operating Limits

A. The owner or operator shall follow the procedures in 40 CFR 60.674(c), except on a weekly basis and including the fugitive emissions from the affected units, while the crusher is operating. If no visible emissions are noted for 3 weeks in a row, opacity monitoring may be done on a monthly basis. This monthly monitoring may continue until visible emissions are seen, at which point monitoring shall revert to a weekly basis again.

B. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.
C. The process rate (quantity of nonmetallic minerals processed, in tons/hr) of this system shall not exceed an average of 350 tons per hour calculated on a daily basis.

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 follow the baghouse monitoring requirements of 40 CFR 60.674(c) or (d), and the recordkeeping and reporting requirements of 40 CFR 60.676(b) and (f).
B. The owner or operator shall keep a logbook detailing the control equipment inspections and maintenance.
C. The owner or operator shall keep records of the required fugitive opacity readings available for inspection.
D. The facility shall record the amount of nonmetallic minerals processed, in tons, for this system on a daily basis.
E. The facility shall record the hours of operation for this system on a daily basis.
F. The facility shall calculate and record on a daily basis the average hourly production rate (in tons/hr) for this system based on the daily amount of nonmetallic minerals and daily hours of operation.

Authority for Requirement: DNR Construction Permit 02-A-683-S3

NSPS Applicability

This emission unit is subject to NSPS Subparts OOO and A.
Authority for Requirement: DNR Construction Permit 02-A-683-S3
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Exhaust Flow Rate (scfm): 3,400
Exhaust Temperature (°F): Ambient
Authority for Requirement: DNR Construction Permit 02-A-683-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 – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 6

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 6	Rock Shed	-	Crushed Rock	400 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: Fugitive Dust
Emission Limit(s): See Plant-wide 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** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 7

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 7	Rock Screen Silo	-	Crushed Rock	400 tons/hr	02-A-665-S4

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 7% [(1)]
Authority for Requirement: DNR Construction Permit 02-A-665-S4
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

[(1)] Per 567 IAC 23.1(2)"bbb" [New Source Performance Standards (NSPS) Subpart OOO], on and after the sixtieth day after achieving the maximum production rate at which the affected facility (Rock Silo Screen, EU 7) will be operated, but no later than one hundred eighty (180) days after the initial startup, no owner or operator shall comply with the following emission limits:

(a) Fugitive emissions from the building openings (except for vents as defined in 40 CFR 60.671) must not exceed 7% opacity, and
(b) Any vent emissions of any building enclosing the affected facilities listed in this permit which exceed:
  a. Particulate matter in excess of 0.032 grams/dscm (0.014 gr/dscf)
  b. Opacity greater than 7%.

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.37 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-665-S4

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.32 lb/hr, 0.014 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-665-S4
567 IAC 23.1(2)"bbb"

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

Operating Limits

A. The owner or operator shall use a Method 22 test on a weekly basis, while the unit is operating. If opacity greater than that observed during the last compliance test which demonstrated compliance with the standard is observed, the owner or operator shall investigate and initiate corrective action to return the unit to normal operation. If no visible emissions are noted for 3 weeks in a row, opacity monitoring may be done on a monthly basis. This monthly monitoring may continue until visible emissions are seen, at which point monitoring shall revert to a weekly basis again.

B. The process rate (quantity of nonmetallic minerals processed, in tons/hr) of this system shall not exceed an average of 350 tons per hour calculated on a daily basis.

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 keep records of the required weekly fugitive opacity readings available for inspection.
B. The facility shall record the amount of nonmetallic minerals processed, in tons, for this system on a daily basis.
C. The facility shall record the hours of operation for this system on a daily basis.
D. The facility shall calculate and record on a daily basis the average hourly production rate (in tons/hr) for this system based on the daily amount of nonmetallic minerals and daily hours of operation.

Authority for Requirement: DNR Construction Permit 02-A-665-S4

NSPS Applicability

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

Authority for Requirement: DNR Construction Permit 02-A-665-S4
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 9, EP 11, EP 13

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 9	EU 8	#1 Raymond Mill	CE 8: Cyclone, CE 9: Baghouse	Crushed Rock	30 tons/hr	02-A-666-S3
	EU 9	#1 Raymond Mill Combustion		Natural Gas	4.26 MMBtu/hr	
EP 11	EU 10	#2 Raymond Mill	CE 10: Cyclone, CE 11: Baghouse	Crushed Rock	30 tons/hr	02-A-667-S3
	EU 11	#2 Raymond Mill Combustion		Natural Gas	4.26 MMBtu/hr	
EP 13	EU 12	#3 Raymond Mill	CE 12: Cyclone, CE 13: Baghouse	Crushed Rock	30 tons/hr	02-A-668-S3
	EU 13	#3 Raymond Mill Combustion		Natural Gas	4.26 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): 40% [(1)]
Authority for Requirement: DNR Construction Permits 02-A-666-S3, 02-A-667-S3, 02-A-668-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 3.6 lb/hr
Authority for Requirement: DNR Construction Permits 02-A-666-S3, 02-A-667-S3, 02-A-668-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 3.6 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permits 02-A-666-S3, 02-A-667-S3, 02-A-668-S3
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permits 02-A-666-S3, 02-A-667-S3, 02-A-668-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. Emission units 9, 11 and 13 shall operate on natural gas only.

Authority for Requirement: DNR Construction Permits 02-A-666-S3, 02-A-667-S3, 02-A-668-S3

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. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in these emission units.

Authority for Requirement: DNR Construction Permits 02-A-666-S3, 02-A-667-S3, 02-A-668-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 70
Stack Opening, (inches, dia.): 20
Exhaust Flow Rate (scfm): 8,300
Exhaust Temperature (°F): 180
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permits 02-A-666-S3, 02-A-667-S3, 02-A-668-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 – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 14

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 14	Stucco Distribution	CE 14: Baghouse	Stucco	45 tons/hr	99-A-642-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 99-A-642-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.60 lb/hr
Authority for Requirement: DNR Construction Permit 99-A-642-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.60 lb/hr, 0.1 gr/scf
Authority for Requirement: DNR Construction Permit 99-A-642-S2
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 70
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 2,000
Exhaust Temperature (°F): 90
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 99-A-642-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.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 15, EP 17, EP 19, EP 21, EP 23

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 15	EU 15	#1 Stucco Kettle	CE 15: Baghouse	Stucco	12 tons/hr	02-A-670-S1
EP 17	EU 17	#2 Stucco Kettle	CE 17: Baghouse	Stucco	12 tons/hr	02-A-672-S1
EP 19	EU 19	#3 Stucco Kettle	CE 19: Baghouse	Stucco	12 tons/hr	02-A-674-S1
EP 21	EU 21	#4 Stucco Kettle	CE 21: Baghouse	Stucco	12 tons/hr	96-A-148-S3
EP 23	EU 23	#5 Stucco Kettle	CE 23: Baghouse	Stucco	12 tons/hr	02-A-676-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.

Emission Point	Opacity	PM_{10}	PM	Authority for Requirement
EP 15	40%[(1)]	0.45 lb/hr	0.45 lb/hr, 0.1 gr/dscf	02-A-670-S1, 567 IAC 23.3(2)"d", 23.3(2)"a"
EP 17	40%[(1)]	0.45 lb/hr	0.45 lb/hr, 0.1 gr/dscf	02-A-672-S1, 567 IAC 23.3(2)"d", 23.3(2)"a"
EP 19	40%[(1)]	0.45 lb/hr	0.45 lb/hr, 0.1 gr/dscf	02-A-674-S1, 567 IAC 23.3(2)"d", 23.3(2)"a"
EP 21	10%	0.49 lb/hr	0.04 gr/dscf	96-A-148-S3, 567 IAC 23.1(2)"ppp"
EP 23	40%[(1)]	0.45 lb/hr	0.45 lb/hr, 0.1 gr/dscf	02-A-676-S1, 567 IAC 23.3(2)"d", 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).

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Emission Point	Stack Height (ft, from the ground)	Stack Opening (inches, dia.)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
EP 15	50	14	4,200	300	Vertical Unobstructed	02-A-670-S1
EP 17	50	16	2,800	300	Vertical Unobstructed	02-A-672-S1
EP 19	50	12	2,400	300	Vertical Unobstructed	02-A-674-S1
EP 21	61.75	24	4,900	260	Vertical Unobstructed	96-A-148-S1
EP 23	50	18	2,800	300	Vertical Unobstructed	02-A-676-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.

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

Reporting & Recordkeeping (EU 21 only)
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 shall follow the specific startup and shutdown procedures provided by the dust collector vendor and shall maintain a record of periods of startup, shutdown or malfunction.
B. The owner shall perform routine monitoring and routine maintenance according to vendor's specifications. A log of actual inspections, observations and maintenance shall be made available to the DNR personnel upon request.
C. Dust collected in the filters shall be discharged only into closed containers without creating additional air emissions.

Authority for Requirement: DNR Construction Permit 96-A-148-S3

NSPS Applicability (EU 21 only)
Emission unit EU 21 is subject to NSPS Subparts UUU and A.
Authority for Requirement: DNR Construction Permit 96-A-148-S3
567 IAC 23.1(2)"ppp", 40 CFR 60 Subpart UUU

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 – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 16, EP 18, EP 20, EP 22, EP 24

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 16	EU 16	#1 Stucco Kettle Combustion	-	Natural Gas	12.7 MMBtu/hr	02-A-671-S2
EP 18	EU 18	#2 Stucco Kettle Combustion	-	Natural Gas	12.7 MMBtu/hr	02-A-673-S2
EP 20	EU 20	#3 Stucco Kettle Combustion	-	Natural Gas	12.7 MMBtu/hr	02-A-675-S2
EP 22	EU 22	#4 Stucco Kettle Combustion	-	Natural Gas	15.9 MMBtu/hr	96-A-149-S3
EP 24	EU 24	#5 Stucco Kettle Combustion	-	Natural Gas	12.7 MMBtu/hr	02-A-677-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 Permits 02-A-671-S2, 02-A-673-S2, 02-A-675-S2, 96-A-149-S3, 02-A-677-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.20 lb/hr
Authority for Requirement: DNR Construction Permits 02-A-671-S2, 02-A-673-S2, 02-A-675-S2, 96-A-149-S3, 02-A-677-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.20 lb/hr, 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permits 02-A-671-S2, 02-A-673-S2, 02-A-675-S2, 96-A-149-S3, 02-A-677-S2
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permits 02-A-671-S2, 02-A-673-S2, 02-A-675-S2, 96-A-149-S3, 02-A-677-S2
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. These emission units shall operate on 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. These records shall show the following:

A. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type of quantity of fuel burned in these emission units.

Authority for Requirement: DNR Construction Permits 02-A-671-S2, 02-A-673-S2, 02-A-675-S2, 96-A-149-S3, 02-A-677-S2
567 IAC 22.108(3)

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

Emission Point	Stack Height (ft, from the ground)	Stack Opening (inches, dia.)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
EP 16	50	21	1,400	300	Vertical Unobstructed	02-A-671-S2
EP 18	50	25	1,400	300	Vertical Unobstructed	02-A-673-S2
EP 20	50	20	1,400	300	Vertical Unobstructed	02-A-675-S2
EP 22	50	20	1,700	500	Vertical Unobstructed	96-A-149-S3
EP 24	50	16	1,400	300	Vertical Unobstructed	02-A-677-S2

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 25

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 25	Kettle Hot Pit	CE 25: Baghouse	Stucco	45 tons/hr	02-A-678-S2

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 02-A-678-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.38 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-678-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.38 lb/hr, 0.1 gr/scf
Authority for Requirement: DNR Construction Permit 02-A-678-S2
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 50
Stack Opening, (inches): 12 x 3
Exhaust Flow Rate (scfm): 2,700
Exhaust Temperature (°F): 150
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 02-A-678-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** ☐

See Appendix A – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 26

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 26	Kettle Feed Bin	CE 26: Baghouse (vents internally)	Land plaster	30 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%
Authority for Requirement: 567 IAC 23.3(2)"d"

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

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 – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 27

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 27	Mill Tube Mill	CE 27: Baghouse	Stucco	35 tons/hr	99-A-643-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 99-A-643-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.28 lb/hr
Authority for Requirement: DNR Construction Permit 99-A-643-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.28 lb/hr, 0.1 gr/scf
Authority for Requirement: DNR Construction Permit 99-A-643-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): 55
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 1,100
Exhaust Temperature (°F): 250
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 99-A-643-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** ☐

See Appendix A – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 28 (Fugitive Source)

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 28	#6 Kettle Feed Bin	N/A	Land plaster	8 tons/hr	N/A

Applicable Requirements

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

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 30

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 30	Hydrocal Bulk Boiler	-	Natural Gas	16.8 MMBtu/hr	02-A-680-S2

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 02-A-680-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.27 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-680-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.27 lb/hr, 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 02-A-680-S2
567 IAC 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 02-A-680-S2
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. The emission unit shall operate on 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. These records shall show the following:

A. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emission unit.

Authority for Requirement: DNR Construction Permit 02-A-680-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 55
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 200
Exhaust Temperature (°F): 370
Discharge Style: Obstructed Vertical
Authority for Requirement: DNR Construction Permit 02-A-680-S2

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 32

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 31	Hyrdocal Bulk Impact Mill	CE 31: Baghouse	Gypsum	10 tons/hr	75-A-157-S3
EU 32	Hydrocal Bulk Impact Mill Combustion		Natural Gas	4.26 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): 40% [(1)]
Authority for Requirement: DNR Construction Permit 75-A-157-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.98 lb/hr
Authority for Requirement: DNR Construction Permit 75-A-157-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.98 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 75-A-157-S3
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 75-A-157-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. The burner for the mill shall be fired by natural gas or propane. The maximum heat input to the burner shall be 4.26 MMBtu per hour.

NSPS Applicability
This emission unit is subject to NSPS Subparts OOO and A.
Authority for Requirement: DNR Construction Permit 75-A-157-S3
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 55
Stack Opening, (inches, dia.): 17
Exhaust Flow Rate (scfm): 6,200
Exhaust Temperature (°F): 255
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 75-A-157-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** ☒

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 33

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 33A	Hydrocal Bulk Rock Feeder	CE 33: Baghouse	Hydrocal	10 tons/hr	75-A-159-S5
EU 33B	Hydrocal Bulk Rock Screen		Hydrocal	10 tons/hr	
EU 33C	Hydrocal Bulk Rock Bin		Hydrocal	150 tons	

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 75-A-159-S5
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.343 lb/hr
Authority for Requirement: DNR Construction Permit 75-A-159-S5

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.343 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 75-A-159-S5
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.

NSPS Applicability
Emission unit EU 33B Hydrocal Bulk Rock Screen is subject to NSPS Subparts OOO and A.
Authority for Requirement: DNR Construction Permit 75-A-159-S5
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 55
Stack Opening, (inches, dia.): 12.75
Exhaust Flow Rate (scfm): 1,200
Exhaust Temperature (°F): 90
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 75-A-159-S5

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

Monitoring Requirements

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

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

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

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

See Appendix A – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 34

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 34	Hydrocal Bulk Finish Grind	CE 34: Baghouse	Hydrocal	10 tons/hr	75-A-158-S4

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 75-A-158-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.38 lb/hr
Authority for Requirement: DNR Construction Permit 75-A-158-S4

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.38 lb/hr, 0.1 gr/scf
Authority for Requirement: DNR Construction Permit 75-A-158-S4
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): 55
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 2,000
Exhaust Temperature (°F): 200
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 75-A-158-S4

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 36

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 36	Hydrocal Bulk Tube Mill Combustion	-	Natural Gas	3.7 MMBtu/hr	02-A-681

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-681
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.04 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-681

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.04 lb/hr, 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 02-A-681
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 02-A-681
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. The emission unit shall operate on natural gas only.

Authority for Requirement: DNR Construction Permit 02-A-681

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

Stack Height, (ft, from the ground): 55
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): 500
Exhaust Temperature (°F): 300
Discharge Style: Obstructed Vertical
Authority for Requirement: DNR Construction Permit 02-A-681

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 37

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 37	Land Plaster Loadout Bin	CE 37: Bin Vent Filters	Land plaster	30 tons/hr	13-A-561

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 13-A-561
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM) - Federal
Emission Limit(s): 0.014 gr/dscf
Authority for Requirement: DNR Construction Permit 13-A-561
567 IAC 23.1(2)"bbb"

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 0.1 gr/scf
Authority for Requirement: DNR Construction Permit 13-A-561
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. Land Plaster Load Out Bin (EU 37) is limited to processing 16,500 tons of land plaster per rolling 12 month 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 DNR. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. Record on a monthly basis, the quantity of land plaster processed in the Land Plaster Load Out Bin (EU37) in tons. Calculate and record rolling 12-month totals.
B. Bin Vent Filters (CE37) shall be monitored according to 40 CFR §60.674(c) or 40 CFR §60.674 (d) and 40 CFR §60.676(b).

C. The owner or operator shall comply with all reporting, notification, and recordkeeping requirements as specified 40 CFR §60.676.

Authority for Requirement: DNR Construction Permit 13-A-561

NSPS Applicability
This emission unit is subject to NSPS Subparts OOO and A.
Authority for Requirement: DNR Construction Permit 13-A-561
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 50
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 2,500
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-561

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 38

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 38	Land Plaster Truck Loading	CE 38: Cartridge Filters	Land plaster	30 tons/hr	13-A-562

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 13-A-562
567 IAC 23.3(2)"d"

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

Pollutant: Opacity – Fugitive
Emission Limit(s): 7%
Authority for Requirements: DNR Construction Permit 13-A-562
567 IAC 23.1(2)"bbb"

Pollutant: Particulate Matter (PM) - Federal
Emission Limit(s): 0.014 gr/dscf
Authority for Requirement: DNR Construction Permit 13-A-562
567 IAC 23.1(2)"bbb"

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 0.1 gr/scf
Authority for Requirement: DNR Construction Permit 13-A-562
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. Land Plaster Truck Loading (EU 38) is limited to processing 16,500 tons of land plaster per rolling 12 month 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 DNR. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. Record on a monthly basis, the quantity of land plaster processed in the Land Plaster Truck Loading (EU38) in tons. Calculate and record rolling 12-month totals.
B. Cartridge Filters (CE38) shall be monitored according to 40 CFR §60.674(c) or 40 CFR §60.674 (d) and 40 CFR §60.676(b).
C. The owner or operator shall comply with all reporting, notification, and recordkeeping requirements as specified 40 CFR §60.676.

Authority for Requirement: DNR Construction Permit 13-A-562

NSPS Applicability

This emission unit is subject to NSPS Subparts OOO and A.
Authority for Requirement: DNR Construction Permit 13-A-562
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 24
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 1,800
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-562

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

Monitoring Requirements

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

Opacity:

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

If visible emissions are observed from a vent, a Method 9 reading must be performed by a certified smoke reader. 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. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Recordkeeping:
Maintain a written record of the observation and any action resulting from the observation. Records shall be maintained on-site for five (5) years and made available to representatives of the DNR upon request.

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 41, EP 42

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 41	EU 41	Hydrocal Finish 1a & 1b Base Storage Bin	CE 41: Bag Filter	Calcined Gypsum	10 tons/hr	75-A-161-S3
EP 42	EU 42	Hydrocal Finish 2a & 2b Base Storage Bin	CE 42: Bag Filter	Calcined Gypsum	10 tons/hr	75-A-162-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 Permits 75-A-161-S3, 75-A-162-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.218 lb/hr
Authority for Requirement: DNR Construction Permits 75-A-161-S3, 75-A-162-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.218 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permits 75-A-161-S3, 75-A-162-S3
567 IAC 23.3(2)"a"

Operational Limits & Requirements

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

Operating Limits

A. The throughput for each emissions unit cannot exceed 87,600 tons of calcined gypsum in any rolling 12-month 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 DNR. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. The permittee shall keep the following monthly records:
   a. The amount of calcined gypsum handled by each emissions unit (tons); and
   b. The rolling 12-month total of the amount of calcined gypsum handled by each emissions unit (tons).

Authority for Requirement: DNR Construction Permits 75-A-161-S3, 75-A-162-S3

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

Stack Height, (ft, from the ground): 70
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 2,200
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permits 75-A-161-S3, 75-A-162-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 – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 43, EP 44

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 43	EU 43	Hydrocal Finish #1 Base Supply Bin	CE 43: Baghouse	Calcined Gypsum	40 tons/hr	75-A-165-S3
EP 44	EU 44	Hydrocal Finish #2 Base Supply Bin	CE 44: Baghouse	Calcined Gypsum	40 tons/hr	75-A-166-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 Permits 75-A-165-S3, 75-A-166-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.44 lb/hr
Authority for Requirement: DNR Construction Permits 75-A-165-S3, 75-A-166-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.44 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permits 75-A-165-S3, 75-A-166-S3
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 80
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 2,200
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permits 75-A-165-S3, 75-A-166-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 – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 45, EP 46

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 45	EU 45	Hydrocal Finish #3a Carbonate Supply Bin	CE 45: Baghouse	Calcium Carbonate	22 tons/hr	75-A-163-S3
EP 46	EU 46	Hydrocal Finish #3b Cement Supply Bin	CE 46: Baghouse	Portland Cement	22 tons/hr	75-A-164-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 Permits 75-A-163-S3, 75-A-164-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.40 lb/hr
Authority for Requirement: DNR Construction Permits 75-A-163-S3, 75-A-164-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.40 lb/hr, 0.1 gr/scf
Authority for Requirement: DNR Construction Permits 75-A-163-S3, 75-A-164-S3
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 70
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 2,200
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permits 75-A-163-S3, 75-A-164-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 – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 47, EP 48

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 47	EU 47	Hydrocal Finish North Carbonate Supply Bin	CE 47: Baghouse	Calcium Carbonate	40 tons/hr	75-A-168-S3
EP 48	EU 48	Hydrocal Finish South Cement Supply Bin	CE 48: Baghouse	Cement	40 tons/hr	75-A-167-S5

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permits 75-A-168-S3, 75-A-167-S5
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.94 lb/hr
Authority for Requirement: DNR Construction Permits 75-A-168-S3, 75-A-167-S5

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.94 lb/hr, 0.1 gr/scf
Authority for Requirement: DNR Construction Permits 75-A-168-S3, 75-A-167-S5
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 (scfm): 2,200
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permits 75-A-168-S3, 75-A-167-S5

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

Monitoring Requirements

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

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

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

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

See Appendix A – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 49

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 49	Hydrocal Finish Bulk Loading Drag Conveyor	-	Calcined Gypsum	170 tons/hr	03-A-118

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 - Fugitive
Emission Limit(s): 10% [(1)]
Authority for Requirement: DNR Construction Permit 03-A-118
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

[(1)] Per 567 IAC 23.1(2)"bbb" [New Source Performance Standards (NSPS) Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants)] on and after the sixtieth day after achieving the maximum production rate at which the above listed affected facilities will be operated, but no later than one hundred eighty (180) days after the initial startup, no owner or operator shall cause to be discharged into the atmosphere from the emission unit listed in this permit any fugitive emissions which exhibit greater than 10 percent opacity.

NSPS Applicability
This emission unit is subject to NSPS Subparts OOO and A.
Authority for Requirement: DNR Construction Permit 03-A-118
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Monitoring Requirements

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

Opacity:

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 50

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 50B	#2 Mixer South Screen	CE 50: Baghouse	Hydrocal	120 tons/hr	75-A-160-S4
EU 50D	#2 Mixer North Screen		Hydrocal	120 tons/hr	
EU 50F	#2 Mixer North Weigh Hopper		Hydrocal	70 tons/hr	
EU 50H	#2 Mixer South Weigh Hopper		Hydrocal	70 tons/hr	
EU 50L	Mixer #2		Hydrocal	90 tons/hr	
EU 50N	#2 Bag Packer		Hydrocal	90 tons/hr	
EU 50P	Three Waste Screw Conveyors		Hydrocal	90 tons/hr	
EU 50Q	Packer Spill Waster Elevator		Hydrocal	60 tons/hr	
EU 50S	#2 Packer Belt Conveyor		Hydrocal	3 tons/hr	
EU 50T	Type 1 Cement #2 Mixer Weigh Hopper		Hydrocal	3 tons/hr	
EU 50U	Landplaster Bag Packing Bin		Hydrocal	12 tons/hr	

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 75-A-160-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.715 lb/hr
Authority for Requirement: DNR Construction Permit 75-A-160-S4

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.715 lb/hr, 0.1 gr/scf
Authority for Requirement: DNR Construction Permit 75-A-160-S4
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. The throughput shall not exceed 657,000 tons per twelve (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 DNR. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. Calculate the throughput of the system on a rolling-12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 75-A-160-S4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 80
Stack Opening, (inches, dia.): 18
Exhaust Flow Rate (scfm): 10,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 75-A-160-S4

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

Monitoring Requirements

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
See Appendix A – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 52

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 52A	Hydrocal Finish Type 1 Cement Storage Bin A	CE 52: Baghouse	Portland Cement	4 tons/hr	80-A-138-S5
EU 52B	Hydrocal Finish Type 1 Cement Storage Bin B		Portland Cement	4 tons/hr	
EU 55	Cement Bin		Portland Cement	17.3 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 80-A-138-S5
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/scf
Authority for Requirement: DNR Construction Permit 80-A-138-S5
567 IAC 23.3(2)"a"

Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of these 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 owner or operator shall inspect and maintain the baghouse (CE-52) according to the facility's (Plant No. 94-01-017) operation and maintenance plan.
   i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse (CE-52). This log shall include, but shall not limited to:
      1. Weekly pressure drop;
      2. The date that any inspection and/or maintenance was performed on the control equipment;
      3. Any issues identified during the inspection;
      4. Any issues addressed during the maintenance activities; and

5. Identification of the staff member performing the maintenance or inspection.

Authority for Requirements: DNR Construction Permit 80-A-138-S5

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 (scfm): 2,000
Exhaust Temperature (°F): 350
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 80-A-138-S5

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

Monitoring Requirements

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
See Appendix A – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 56

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 56A	#1 Mixer North Screen	CE 56: Baghouse	Hydrocal	120 tons/hr	02-A-684-S1
EU 56B	#1 Mixer South Screen		Hydrocal	120 tons/hr	
EU 56C	#1 Mixer North Weigh Hopper		Hydrocal	70 tons/hr	
EU 56D	#1 Mixer South Weigh Hopper		Hydrocal	70 tons/hr	
EU 56E	#1 Mixer Bag Dump Station		Hydrocal	20 tons/hr	
EU 56F	Type 1 Cement #1 Mixer Weigh Hopper		Hydrocal	70 tons/hr	
EU 56G	Mixer #1		Hydrocal	90 tons/hr	
EU 56H	#1 Mixer East Screen		Hydrocal	35 tons/hr	
EU 56I	#1 Mixer East Weigh Hopper		Hydrocal	35 tons/hr	
EU 56J	Bulk Loading Surge Hopper		Hydrocal	90 tons/hr	
EU 56K	#1 Bag Packer		Hydrocal	90 tons/hr	
EU 56L	#1 Packer Belt Conveyor		Hydrocal	3 tons/hr	

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 7%
Authority for Requirement: DNR Construction Permit 02-A-684-S1
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 2.26 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-684-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 2.26 lb/hr, 0.02 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-684-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 02-A-684-S1
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 80
Stack Opening, (inches, dia.): 25.5
Exhaust Flow Rate (scfm): 12,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 02-A-684-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:
Visible emissions shall be observed on a weekly basis to ensure that none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>7 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

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

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

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 – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 58

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 58	Hydrocal C Base Grinding & Conveying	CE 58: Baghouse	Hydrocal	10 tons/hr	93-A-159-S4

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 7%
Authority for Requirement: DNR Construction Permit 93-A-159-S4
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.41 lb/hr
Authority for Requirement: DNR Construction Permit 93-A-159-S4

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.41 lb/hr, 0.02 gr/dscf
Authority for Requirement: DNR Construction Permit 93-A-159-S4
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 93-A-159-S4
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 60
Stack Opening, (inches, dia.): 14
Exhaust Flow Rate (scfm): 2,200
Exhaust Temperature (°F): 270
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 93-A-159-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.

Opacity:

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

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 59

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 59	Hydrocal C Base Dryer	CE 59: Filter Receiver	Hydrocal	10 tons/hr	93-A-160-S5
EU 60	Hydrocal C Base Dryer Combustion		Natural Gas	10 MMBtu/hr	

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 7%
Authority for Requirement: DNR Construction Permit 93-A-160-S5
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.85 lb/hr
Authority for Requirement: DNR Construction Permit 93-A-160-S5

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.022 gr/dscf
Authority for Requirement: DNR Construction Permit 93-A-160-S5
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 93-A-160-S5
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. The dryer mill combustion unit (EU 60) shall only combust natural gas.

Authority for Requirement: DNR Construction Permit 93-A-160-S5

NSPS Applicability
This emission unit is subject to NSPS Subparts OOO, UUU and A.
Authority for Requirement: DNR Construction Permit 93-A-160-S5
567 IAC 23.1(2)"bbb", 567 IAC 23.1(2)"ppp"
40 CFR 60 Subpart OOO, 40 CFR 60 Subpart UUU

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

Stack Height, (ft, from the ground): 69
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 9,800
Exhaust Temperature (°F): 270
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 93-A-160-S5

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

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

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

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 61

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 61A	Hydrocal C Base Tube Mill Feed Bin	CE 61: Baghouse	Hydrocal	25 tons	93-A-161-S3
EU 61B	Hydrocal C Base Storage Bin		Hydrocal	16 tons	

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 93-A-161-S3
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.05 lb/hr
Authority for Requirement: DNR Construction Permit 93-A-161-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.05 lb/hr, 0.02 gr/dscf
Authority for Requirement: DNR Construction Permit 93-A-161-S3
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 93-A-161-S3
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 60
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): 500
Exhaust Temperature (°F): 190
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 93-A-161-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.

Opacity:

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

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 62

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 62	Hydrocal C Base Packing Supply Bin	CE 62: Baghouse	Hydrocal	10 tons/hr	93-A-162-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): 7%
Authority for Requirement: DNR Construction Permit 93-A-162-S3
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.21 lb/hr
Authority for Requirement: DNR Construction Permit 93-A-162-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.21 lb/hr, 0.02 gr/dscf
Authority for Requirement: DNR Construction Permit 93-A-162-S3
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 93-A-162-S3
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 60
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): 1,000
Exhaust Temperature (°F): 125
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 93-A-162-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.

Opacity:

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

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 63

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 63	Hydrocal C Base Landplaster Bin	CE 63: Baghouse	Landplaster	10 tons/hr	93-A-164-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): 7%
Authority for Requirement: DNR Construction Permit 93-A-164-S3
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.19 lb/hr
Authority for Requirement: DNR Construction Permit 93-A-164-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.19 lb/hr, 0.02 gr/dscf
Authority for Requirement: DNR Construction Permit 93-A-164-S3
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 93-A-164-S3
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 60
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): 1,000
Exhaust Temperature (°F): 105
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 93-A-164-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.

Opacity:

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

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 64

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 64	Hydrocal Bulk Loading	CE 64: Baghouse	Hydrocal	50 tons/hr	93-A-165-S5

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 7%
Authority for Requirement: DNR Construction Permit 93-A-165-S5
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.071 lb/hr
Authority for Requirement: DNR Construction Permit 93-A-165-S5

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.071 lb/hr, 0.02 gr/dscf
Authority for Requirement: DNR Construction Permit 93-A-165-S5
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 93-A-165-S5
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 57
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 900
Exhaust Temperature (°F): 215
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 93-A-165-S5

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

Monitoring Requirements

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

Opacity:

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

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 65

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 65	Hydrocal Bulk Loading Drag Conveyor #2 (North)	-	Cement	90 tons/hr	03-A-119

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 (fugitive)
Emission Limit(s): 10%
Authority for Requirement: DNR Construction Permit 03-A-119
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 03-A-119
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 66

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 66	Hydrocal C Base Boiler	-	Natural Gas	16.8 MMBtu/hr	02-A-664

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-664
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.24 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-664

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.24 lb/hr, 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 02-A-664
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 02-A-664
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 use 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. These records shall show the following:

A. The amount of fuel used on a monthly basis.

B. A copy of all excess emission reports required for Subpart Dc. Per the reduced recordkeeping for Subpart Dc the facility may report excess emission (or lack thereof) on an annual frequency. It should be noted that the facility is also required to rally notify the DNR Field office of excess emissions within 8 hours and submit a written report within 7 days.

Authority for Requirement: DNR Construction Permit 02-A-664
567 IAC 23.1(2)"lll", 40 CFR 60 Subpart Dc

NSPS Applicability
This emission unit is subject to NSPS Subparts Dc and A.
Authority for Requirement: DNR Construction Permit 02-A-664
567 IAC 23.1(2)"lll", 40 CFR 60 Subpart Dc

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

Stack Height, (ft, from the ground): 68
Stack Opening, (inches, dia.): 22
Exhaust Flow Rate (scfm): 200
Exhaust Temperature (°F): 370
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 02-A-664

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 67

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 67	Hydrocal C Base Tube Mill Burner	-	Natural Gas	3.75 MMBtu/hr	02-A-682

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-682
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.05 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-682

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.05 lb/hr, 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 02-A-682
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 02-A-682
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 operate on natural gas only.

Authority for Requirement: DNR Construction Permit 02-A-682

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

Stack Height, (ft, from the ground): 60
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): 500
Exhaust Temperature (°F): 300
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 02-A-682

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 71

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 71	#1 Board End Saw	CE 71: Baghouse	Wallboard	0.0635 $MMft^2/hr$	92-A-531-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 92-A-531-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.36 lb/hr
Authority for Requirement: DNR Construction Permit 92-A-531-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.36 lb/hr, 0.1 gr/scf
Authority for Requirement: DNR Construction Permit 92-A-531-S2
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 37.5
Stack Opening, (inches, dia.): 7
Exhaust Flow Rate (scfm): 1,200
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 92-A-531-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** ☐

See Appendix A – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 73

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 73	East Stucco Silo	CE 73: Baghouse	Stucco	50 tons/hr	04-A-958-S1
EU 74	West Stucco Silo		Stucco	50 tons/hr	

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 04-A-958-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.28 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-958-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.28 lb/hr, 0.022 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-958-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. The east and west stucco silos, EU 73 and EU 74, shall not be filled simultaneously.

Authority for Requirement: DNR Construction Permit 04-A-958-S1

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

Stack Height, (ft, from the ground): 50
Stack Opening, (inches, dia.): 11
Exhaust Flow Rate (scfm): 1,490
Exhaust Temperature (°F): 250
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 04-A-958-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** ☐

See Appendix A – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 76

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 76	#1 Board Drying Kiln	-	Natural Gas	78 MMBtu/hr	85-A-094-S6

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 85-A-094-S6
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.25 lb/hr
Authority for Requirement: DNR Construction Permit 85-A-094-S6

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.25 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 85-A-094-S6
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 85-A-094-S6
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. The emission unit shall operate on 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. These records shall show the following:

A. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emission unit.

Authority for Requirement: DNR Construction Permit 85-A-094-S6

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30
Stack Opening, (inches): 35 x 48
Exhaust Flow Rate (scfm): 29,900
Exhaust Temperature (°F): 250
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 85-A-094-S6

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 78

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 78	#1 Board PST & Mixer	CE 78: Baghouse	Stucco	32 tons/hr	03-A-335

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 03-A-335
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.18 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-335

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.18 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-335
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): 22
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): 950
Exhaust Temperature (°F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 03-A-335

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 80

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 80	Board Cut Back Saw	CE 80: Baghouse (vents internally)	Wallboard	24 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%
Authority for Requirement: 567 IAC 23.3(2)"d"

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 82

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 82	#1 Board HRA Ball Mill	CE 82: Baghouse	Gyspum	0.4 tons/hr	99-A-644-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 99-A-644-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.03 lb/hr
Authority for Requirement: DNR Construction Permit 99-A-644-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.03 lb/hr, 0.1 gr/scf
Authority for Requirement: DNR Construction Permit 99-A-644-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): 8.56
Stack Opening, (inches, dia.): 4
Exhaust Flow Rate (scfm): 400
Exhaust Temperature (°F): 150
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 99-A-664-S1

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 83

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 83	#1 Board HRA Landplaster Storage Bin	CE 83: Baghouse (vents internally)	Landplaster	1 ton/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: 567 IAC 23.3(2)"d"

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 87, EP 88

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 87	EU 87	Board Stucco Surge Bin	CE 87: Baghouse	Stucco	40 tons/hr	04-A-959-S1
EP 88	EU 88	Board Stucco Surge Bin	CE 88: Baghouse	Stucco	40 tons/hr	04-A-960-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 Permits 04-A-959-S1, 04-A-960-S1
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.084 lb/hr
Authority for Requirement: DNR Construction Permits 04-A-959-S1, 04-A-960-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.084 lb/hr, 0.022 gr/scf
Authority for Requirement: DNR Construction Permits 04-A-959-S1, 04-A-960-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 Permits 04-A-959-S1, 04-A-960-S1
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Emission Point	Stack Height (ft, from the ground)	Stack Opening (inches, dia.)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
EP 87	55	10	447	250	Vertical Unobstructed	04-A-959-S1
EP 88	60	10	447	250	Vertical Unobstructed	04-A-960-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:

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

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 89

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 89A	Finish Surge Silo	CE 89: Baghouse	Stucco	30 tons/hr	04-A-961-S1
EU 89B	Floor Fill Surge Bin		Stucco	30 tons/hr	

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 7%
Authority for Requirement: DNR Construction Permit 04-A-961-S1
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.323 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-961-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.323 lb/hr, 0.022 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-961-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 04-A-961-S1
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 95
Stack Opening, (inches, dia.): 11
Exhaust Flow Rate (scfm): 1,717
Exhaust Temperature (°F): 250
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 04-A-961-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:

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

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

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

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 – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 90

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 90	Waste Silo with Enclosed Truck Loadout	CE 90: Baghouse	Waste Gypsum	30 tons/hr	04-A-962-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 04-A-962-S1
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.528 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-962-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.528 lb/hr, 0.022 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-962-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 04-A-962-S1
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 80
Stack Opening, (inches, dia.): 16
Exhaust Flow Rate (scfm): 2,800
Exhaust Temperature (°F): 250
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 04-A-962-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:

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

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

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

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 – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 91

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 91	Ready Mix Carbonate Suppy Bin	CE 91: Baghouse (vents internally)	Calcium Carbonate	7 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%
Authority for Requirement: 567 IAC 23.3(2)"d"

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 92

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 92	Ready Mix Pre-Mixer	CE 92A: Dust Collector CE 92B: Dust Collector	Ready Mix	14 tons/hr	02-A-685-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): No Visible Emissions[(1)]
Authority for Requirement: DNR Construction Permit 02-A-685-S2
567 IAC 23.3(2)"d"

[(1)] If visible emissions are observed other than startup, shutdown, or malfunction a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.38 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-685-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.38 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-685-S2
567 IAC 23.3(2)"a"

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

Exhaust Flow Rate (scfm): 500
Exhaust Temperature (°F): Ambient
Authority for Requirement: DNR Construction Permit 02-A-685-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:

Visible emissions shall be observed on a weekly basis to ensure none occur when the emission unit on this emission point is at or near full capacity. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible emissions readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

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

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

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

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

See Appendix A – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 93

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 93	Ready Mix Bag Dump Station	CE 93: Baghouse	Ready Mix	1.41 tons/hr	02-A-686-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): No Visible Emissions [(1)]
Authority for Requirement: DNR Construction Permit 02-A-686-S2
567 IAC 23.3(2)"d"

[(1)] If visible emissions are observed other than startup, shutdown, or malfunction a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.28 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-686-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.28 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-686-S2
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 37.5
Stack Opening, (inches, dia.): 7
Exhaust Flow Rate (scfm): 1,200
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 02-A-686-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:

Visible emissions shall be observed on a weekly basis to ensure none occur when the emission unit on this emission point is at or near full capacity. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible emissions readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

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

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

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

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

See Appendix A – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 100, EP 101, EP 132, EP 140, EP 141, EP 143

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 100	EU 100	Stockpile – North	-	Rock	0.8 Acres	-
EP 101	EU 101	Stockpile – South	-	Rock	0.31 Acres	-
EP 132	EU 132	Stockpile – West	-	Crushed Rock	0.72 Acres	-
EP 140	EU 140	Rock Loading Traffic	-	Gravel Road	8.05 VMT/hr	-
EP 141	EU 141	Umthun Haul Road	-	Gravel Road	5.39 VMT/hr	-
EP 143	EU 143	Haul Road	-	Gravel Road	4.5 VMT/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: Fugitive Dust
Emission Limit(s): See Plant-wide Conditions
Authority for Requirement: 567 IAC 23.3(2)"c"

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 113

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 113	Waste Silo Open Truck Loadout	-	Waste Gypsum	30 tons/hr	04-A-1080

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 04-A-1080
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 2.25 tons/yr
Authority for Requirement: DNR Construction Permit 04-A-1080

Pollutant: Particulate Matter (PM)
Emission Limit(s): 10.5 tons/yr
Authority for Requirement: DNR Construction Permit 04-A-1080
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.

Operating Limits

A. The loading of open trucks at the waste silo is limited to a maximum of twelve hours per day from 6 A.M. to 6 P.M. The loading of enclosed trucks, as defined by §60.671, is unrestricted.
B. The amount of material loaded out into open trucks shall not exceed 30,000 tons in any rolling 12-month period.
C. Compliance with the annual limit for PM shall be based on the following equation:
PM = TPY x 0.7 lb PM/ton x 1/2000
Where: PM = tons of PM emitted
TPY = tons of material loaded out into open trucks
0.7 lb PM/ton = emission factor provided in construction permit application for gypsum conveying
D. Compliance with the annual limit for PM10 shall be based on the following equation:
PM10 = TPY x 0.15 lb PM10/ton x 1/2000
Where: PM10 = tons of PM10 emitted
TPY = tons of material loaded out into open trucks
0.15 lb PM10/ton = emission factor from FIRE database for gypsum conveying

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 permittee shall record daily the initial startup time and final shutdown time for the open truck loading operation.
B. The permittee shall maintain the following monthly records:
    a. The amount of material loaded out by means of the open truck loadout; and
    b. The rolling 12-month total of the amount of material loaded out by means of the open truck loadout.

Authority for Requirement: DNR Construction Permit 04-A-1080

NSPS Applicability

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

Authority for Requirement: DNR Construction Permit 04-A-1080
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Monitoring Requirements

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

Opacity:

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 118, EP 122B, EP 125C, EP 128, EP 181

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 118	EU118	Mill Loadout	-	Stucco	25 tons/hr	-
EP 122B	EU 122B	Bagging	-	Stucco	75 tons/hr	-
EP 125B	EU 125B	Board Mixing	-	Dry Additives	45 tons/hr	-
EP 125C	EU 125C	#1 Board PST	-	Dry Additives	26 tons/hr	-
EP 128	EU 128	Stucco Transfer	-	Stucco	45 tons/hr	-
EP 181	EU 181	Stucco Conveyor	-	Stucco	0.4 Acres	-

Applicable Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 150, EP 151, EP 152

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 150	EU 150	Soap	-	Soap	15.98 lb/hr	-
EP 151	EU 151	Ink Usage	-	Ink	0.46 lb/hr	-
EP 152	EU 152	Latex	-	Latex	913.24 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.

There are no applicable emission limits for these emission units at this time.

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 161

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 161	Emergency Generator	-	Diesel	22.9 gal/hr	12-A-203

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 12-A-203
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.44 lb/hr
Authority for Requirement: DNR Construction Permit 12-A-203

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.44 lb/hr
Authority for Requirement: DNR Construction Permit 12-A-203

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 1.58 lb/hr, 2.5 lb/MMBtu
Authority for Requirement: DNR Construction Permit 12-A-203
567 IAC 23.3(3)

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 11.04 lb/hr
Authority for Requirement: DNR Construction Permit 12-A-203

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 2.67 lb/hr
Authority for Requirement: DNR Construction Permit 12-A-203

Operational Limits & Requirements

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

Operating Limits

A. The Emergency Generator EU 161 shall only combust diesel fuel oil.
B. The Emergency Generator EU 161 shall not operate more than 100 hours per twelve-month rolling period.
C. The maximum sulfur content of the diesel fuel oil combusted in the Emergency Generator EU 161 shall not exceed 0.5 % (by weight).

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 record the time of startup and time of shutdown for Emergency Generator EU 161.
B. Each month, the owner or operator shall record the total hours of operation for Emergency Generator EU 161, and calculate and record rolling twelve-month totals.
C. The owner or operator shall maintain records of the type of fuel and the sulfur content of the diesel fuel oil combusted in Emergency Generator EU 161.

Authority for Requirement: DNR Construction Permit 12-A-203

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 compression 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.

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

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

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing, 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.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response. 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

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

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

1. An initial notification is not required per 40 CFR 63.6645(a)(5)
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2d. (See Footnote 2 of Table 2d for more information.)
3. 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"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 11.5
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 890
Exhaust Temperature (°F): 1,000
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 12-A-203

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 302, EP 303, EP 305, EP 307, EP 311

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 302	EU 302	Primary Crusher – Quarry	-	Gypsum	800 tons/hr	00-A-848-S2
EP 303	EU 303A	Belt Conveyor – Quarry	CE 303: Baghouse (vents internally)	Gypsum	800 tons/hr	
	EU 303B	Belt Conveyor – Quarry		Gypsum	800 tons/hr	
EP 305	EU 305	Belt Conveyor – Quarry	-	Gypsum	800 tons/hr	
EP 307	EU 307	Truck Loading – Quarry	-	Gyspum	600 tons/hr	
EP 311	EU 311	Belt Conveyor – Plant	-	Gypsum	600 tons/hr	

Applicable Requirements

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

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

(a) Any transfer points on the above listed equipment not enclosed in a building any fugitive emissions which exhibit greater than 10 percent opacity, except for (b).
(b) Any crushers not enclosed in a building any fugitive emissions which exhibit greater than 15 percent opacity.
(c) Any building enclosing any of the above listed affected facilities any visible fugitive emissions except emissions from a vent as defined in § 60.671 of 40 CFR.
(d) Any vent of any building enclosing any of the above listed affected facilities emissions which exceed:
- Particulate matter in excess of 0.05 grams/dscm (0.02 grains/dscf).
- Opacity greater than 7 %.

Authority for Requirement: DNR Construction Permit 00-A-848-S2
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 00-A-848-S2
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Monitoring Requirements

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

Opacity:

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

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 304, EP 308

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 304	EU 304	Stockpile – Quarry	-	Gypsum	800 tons/hr	-
EP 308	EU 308	Haul Road – Quarry	-	Gypsum	30 VMT/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: Fugitive Dust
Emission Limit(s): See Plant-wide 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** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 401, EP 402

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 401	EU 401	Hydrocal Finish Bulk A-Base Supply Bin	CE 401: Baghouse	Calcined Gypsum	70 tons/hr	01-A-698
EP 402	EU 402	Hyrdocal Finish Bulk C-Base Supply Bin	CE 402: Baghouse	Hydrocal	70 ton/shr	01-A-699

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 Permits 01-A-698, 01-A-699
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.74 lb/hr
Authority for Requirement: DNR Construction Permits 01-A-698, 01-A-699

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.02 gr/dscf
Authority for Requirement: DNR Construction Permits 01-A-698, 01-A-699
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 Permits 01-A-698, 01-A-699
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 113.5
Stack Opening, (inches, dia.): 14
Exhaust Flow Rate (scfm): 3,900
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permits 01-A-698, 01-A-699

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:

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

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 403

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 403	Hydrocal Finish Bulk Type 1 Cement Supply Bin	CE 403: Baghouse	Type 1 Cement	35 tons/hr	01-A-700-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): No Visible Emissions [(1)]
Authority for Requirement: DNR Construction Permit 01-A-700-S2
567 IAC 23.3(2)"d"

[(1)] If visible emissions are observed other than startup, shutdown, or malfunction a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.37 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-700-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.37 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-700-S2
567 IAC 23.3(2)"a"

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

Stack Height, (ft, from the ground): 113.5
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): 2,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-700-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:

Visible emissions shall be observed on a weekly basis to ensure none occur when the emission unit on this emission point is at or near full capacity. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible emissions readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 407

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 407A	A-Base Screen	CE 407: Baghouse	Hydrocal	70 tons/hr	01-A-704-S2
EU 407B	C-Base Screen		Hydrocal	70 tons/hr	
EU 407C	Class C Cement Screen		Hydrocal	35 tons/hr	
EU 407D	Stucco Screen		Hydrocal	35 tons/hr	
EU 407E	A-Base Weigh Hopper		Hydrocal	70 tons/hr	
EU 407F	C-Base Weigh Hopper		Hydrocal	70 tons/hr	
EU 407G	Class C Weigh Hopper		Hydrocal	35 tons/hr	
EU 407H	Stucco Weigh Hopper		Hydrocal	35 tons/hr	
EU 407I	Bulk Mixer		Hydrocal	100 tons/hr	
EU 407J	Bag Dump Station		Hydrocal	3 tons/hr	
EU 407K	Bulk Loading Conveyor		Hydrocal	100 tons/hr	
EU 407N	Type 1 Cement Weigh Hopper		Hydrocal	35 tons/hr	
EU 407O	Conveyor		Hydrocal	170 tons/hr	

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 7%
Authority for Requirement: DNR Construction Permit 01-A-704-S2
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.51 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-704-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.51 lb/hr, 0.02 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-704-S2
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 01-A-704-S2
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 113.5
Stack Opening, (inches, dia.): 20
Exhaust Flow Rate (scfm): 8,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-704-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:
Visible emissions shall be observed on a weekly basis to ensure that none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>7 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

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

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

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 – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 409

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 409	Hydrocal Finish Bulk C-Base Packaging Supply Bin	CE 409: Baghouse	Hydrocal	35 tons/hr	01-A-705

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 01-A-705
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.37 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-705

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.02 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-705
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 01-A-705
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 113.5
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): 2,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-705

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:

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

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 411

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 411	Waste Bin	CE 411: Baghouse	Waste	15 tons/hr	01-A-706-S2

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 7%
Authority for Requirement: DNR Construction Permit 01-A-706-S2
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.47 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-706-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.022 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-706-S2
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 01-A-705
567 IAC 23.1(2)"bbb", 40 CFR 60 Subpart OOO

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

Stack Height, (ft, from the ground): 40
Stack Opening, (inches): 13 x 16
Exhaust Flow Rate (scfm): 1,800
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-706-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:

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

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

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 412

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 412A	Type 1 Cement Surge Bin	CE 412: Baghouse	Cement	4 tons/hr	01-A-707-S2
			Natural Gas	3 MMBtu/hr	
EU 412B	Type 1 Cement Surge Mill		Cement	4 tons/hr	
			Natural Gas	3 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): 40%[(1)]
Authority for Requirement: DNR Construction Permit 01-A-707-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.13 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-707-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.13 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-707-S2
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: DNR Construction Permit 01-A-707-S2
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. The fuel used shall be limited to natural gas.

Authority for Requirement: DNR Construction Permit 01-A-707-S2

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

Stack Height, (ft, from the ground): 42
Stack Opening, (inches, dia.): 16
Exhaust Flow Rate (scfm): 3,900
Exhaust Temperature (°F): 350
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-707-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** ☐
See Appendix A – CAM Plan

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

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

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
    a. Form 1.0 "Facility Identification";
    b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
    c. Form 5.0 "Title V annual emissions summary/fee"; and
    d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
    a. Form 1.0 "Facility Identification";
    b. Form 5.0 "Title V annual emissions summary/fee";
    c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:

a. The date, place and time of sampling or measurements
b. The date the analyses were performed.
c. The company or entity that performed the analyses.
d. The analytical techniques or methods used.
e. The results of such analyses; and
f. The operating conditions as existing at the time of sampling or measurement.
g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

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

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

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

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

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

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;

b. Compliance test methods specified in 567 Chapter 25; or

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

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

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

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

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

2. Excess Emissions Reporting

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

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

ii. The estimated quantity of the excess emission.

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

iv. The cause of the excess emission.

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

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

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department

within seven days of the onset of the upset condition, and shall include as a minimum the following:

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

ii. The estimated quantity of the excess emission.

iii. The time and duration of the excess emission.

iv. The cause of the excess emission.

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

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

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

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

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

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

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of

performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

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

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

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

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

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

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

e. The changes comply with all applicable requirements.

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

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

ii. The date on which the change will occur,

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

iv. The pollutants emitted subject to the emissions trade

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

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

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

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

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

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

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

i. Correct typographical errors

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

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

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

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

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

2. Minor Title V Permit Modification.

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

i. Do not violate any applicable requirement;

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

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

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

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

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

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

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

ii. The permittee's suggested draft permit;

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

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

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

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

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

b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

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

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

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

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

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

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

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

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

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

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

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air

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

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

G24. Permit Reopenings

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

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

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

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

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

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

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

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

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

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

permit.

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

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

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

G25. Permit Shield

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

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

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

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

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

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

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

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

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9545

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

G31. Prevention of Air Pollution Emergency Episodes
The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.
567 IAC 26.1(1)

G32. Contacts List

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

Chief of Air Permits
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9500

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

Field Office 1
909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

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

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

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

Field Office 5
7900 Hickman Road, Suite #200
Windsor Heights, IA 50324
(515) 725-0268

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

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

Linn County Public Health
Air Quality Branch
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

VI. Appendices

Appendix A: Compliance Assurance Monitoring Plan

1.0 PURPOSE

The purpose of the plans is to maintain compliance with the current Title V air permit and air regulations. The CAM plan presents guidelines to collect data and practice policies to determine compliance. The data collected is used to determine proper operations of specific control equipment. The following equipment is subject to the CAM Plan.

Emission Point Number	Control Equipment Number	Control Equipment Description	DNR Construction Permit Number
EP 4	CE 4	Baghouse	02-A-683-S3
EP 9	CE 9	Baghouse	02-A-666-S3
EP 11	CE 11	Baghouse	02-A-667-S3
EP 13	CE 13	Baghouse	02-A-668-S3
EP 15	CE 15	Baghouse	02-A-670-S1
EP 17	CE 17	Baghouse	02-A-672-S1
EP 19	CE 19	Baghouse	02-A-674-S1
EP 21	CE 21	Baghouse	96-A-148-S3
EP 23	CE 23	Baghouse	02-A-676-S1
EP 25	CE 25	Baghouse	02-A-678-S2
EP 26	CE 26	Baghouse	-
EP 27	CE 27	Baghouse	99-A-643-S1
EP 33	CE 33	Baghouse	75-A-159-S5
EP 41	CE 41	Baghouse	75-A-161-S3
EP 42	CE 42	Baghouse	75-A-162-S3
EP 43	CE 43	Baghouse	75-A-165-S3
EP 44	CE 44	Baghouse	75-A-166-S3
EP 45	CE 45	Baghouse	75-A-163-S3
EP 46	CE 46	Baghouse	75-A-164-S3
EP 47	CE 47	Baghouse	75-A-168-S3
EP 48	CE 48	Baghouse	75-A-167-S5
EP 50	CE 50	Baghouse	75-A-160-S4
EP 52	CE 52	Baghouse	80-A-138-S5
EP 56	CE 56	Baghouse	02-A-684-S1
EP 71	CE 71	Baghouse	92-A-531-S2
EP 73	CE 73	Baghouse	04-A-958-S1
EP 89	CE 89	Baghouse	04-A-961-S1
EP 90	CE 90	Baghouse	04-A-962-S1
EP 92	CE 92A	Baghouse	02-A-685-S2
	CE 92B	Baghouse	
EP 93	CE 93	Baghouse	02-A-686-S2
EP 407	CE 407	Baghouse	01-A-704-S2
EP 412	CE 412	Baghouse	01-A-707-S2

Monitoring is conducted on a weekly basis, unless otherwise stated. Results are noted or entered on inspection logs or in a computer spreadsheet as needed. Visual inspections and differential pressure readings are used to detect potential problems that may cause a release of air emissions. If potential problems are indicated, work orders are issued to either correct the problem or investigate the potential problem.

Due to continuous process modifications and government issued mandates, this plan may need to be modified. When modifications are required, a revised page will replace the out dated page and the out dated page will be inserted into the appendix at the end of the document for reference. Proper notification of effected parties is required for all changes.

2.0 CAM Weekly Inspection Requirements

The following items are checked on each specified dust collector on a weekly basis to fulfill CAM requirements. If the equipment does not operate during a weekly period, it is noted in the records as such.

A. Differential Pressure Reading
   - Accuracy will be to 1/10 of an inch (Ex: 2.6 in. of H2O). The allowable range for the readings depends on the design and is noted for each individual unit in the inspection logs.
B. Bag Cleaning Sequence of each Header Diaphragm Valve
C. Compressed Air Supply Lines, Oilers, and Filters
D. Dust Collector Temperature
E. Fan Conditions (Example: Look for Excess Vibration)
F. Fan Dampener Position (Example: correct position)
G. All Moving Parts on the Dust Discharge System (Make sure dust is removed as needed if applicable)
H. Exterior condition of Baghouse for normal or abnormal visual and audible conditions
I. Buildup of Dust or Holes in Duct Work
J. Make sure the Confined Space Sign is readable
K. Make sure name plate and any other identification signs are legible
L. Condition of access platform, safety chain, stairs, ladder (If Applicable)

Checking these items will be assigned each week using the RPM program software.

The following items are checked and recorded each time the dust collector is entered for any maintenance reason.

A. Bag-Seating Condition (Only if Bags & Cages are Removed for Maintenance)
B. Bags for Leaks and Holes
C. Leaking Between Header Sheet and Bag Cups (Look for clean spots on Header Sheet near venturi cups)
D. Gaskets on All Doors
E. Hopper for Excessive Wear
F. Condition of Venturi Cups (Only if Bags & Cages are Removed for Maintenance)
G. Paint on Baghouse (Is there rust, chipping, corrosion that needs to be repaired)

Once the dust collector has been inspected either for the weekly inspection or shut down inspection, the deficient items are corrected as soon as possible. Repairs are either completed immediately or work orders are put in place and completed before the deficiency becomes a serious problem.

If deficiencies immediately affect air quality, then an emergency work order will be completed to assure compliance with air quality standards.

If the deficiencies found do not immediately affect air quality, then a medium priority work order will need to be completed. An example of this is if the magnahelic gauge begins to read lower than normal.

All weekly records will be kept in the maintenance department where the data was taken. A copy is to be sent to the project engineer responsible for environmental compliance.

3.0 CAM Daily Visible Emission Requirements

Visible emissions occur when material can be seen exiting a dust collector's waste stream into the air. An opacity reading will attempt to quantify the light that passes through a waste stream. Although visible emissions and opacity are closely related, the two terms should not be interchanged. The difference between the two is an opacity reading is conducted by a certified smoke reader applying EPA Method 9. Visual emissions checks are made by anyone in charge of inspecting emission points.

The plant is to perform daily visible emission inspections on required baghouses for the CAM plan. When there are no visual emissions present from the emission point, no further action is needed. If visible emissions are present, the inspector is to follow a procedure that notifies the correct people and response to the situation.

In no cases may a piece of equipment showing visible emissions be left running 8 hours after the initial observation, and at no point should production, overtime, cost, or maintenance schedules take precedence over repairing an emission point showing visible emissions. Doing so is a violation of the Air Quality Act.

The following checklist shows the proper steps to be taken when visible emissions are observed from a source. Each step needs to be completed in a timely manner. The purpose of this check list is to ensure proper protocol is followed when visible emissions have been identified

A. NOTIFICATIONS:
    1. Call extension 861 and leave a message including the following:
        - Specific piece of equipment
        - Date and time visual emission was noticed
        - Time equipment was shut down
    2. Make notation on the CAM Pressure Drop/Visual Emission Log as to what actions were taken.
    3. Notify Affected Production Forman
    4. Notify Affected Department Manager
    5. Notify Affected Maintenance Forman
    6. Notify Environmental Coordinator who will contact the DNR

B. REPAIR:
    1. Equipment must be shut down within 8 hours of noticing visible emissions.
    2. Repairs must be made to the equipment. The dust collector must be thoroughly checked for mechanical problems. It is not acceptable to simply open the equipment and indicate nothing was found without extensively looking through the equipment.
    3. After the equipment is repaired, the emission point should be inspected to ensure it is no longer showing visible emissions.

4. If the equipment continues to show visible emissions, opacity is to be read by a certified individual, notify the DNR via phone to let them know the situation and opacity. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the Visual Emission Form. At least three attempts shall be made to retake opacity readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather an observation shall be made the following day.
5. Repeat items 2, 3, and 4 as necessary. However, it is critical that the equipment be repaired in as few attempts as possible.

C. LETTER TO DNR:
1. A letter should be drafted to officially notify the DNR of the visible emissions. This letter should include all information from the phone call including time of noticing visible emissions, and time of phone call. It should also include the MAXIMUM time the source could have been dusting. In the case that immediate repairs were not effective, include opacity and documentation of the test. The letter needs to be received by the DNR within 7 days of the occurrence.
2. The emergency work order to complete repairs is to be completed by production and submitted to the mechanics. It is production's responsibility to follow the 8 hour shut down rule. Failure to comply can result in a $10,000 per day of violation and up to 2 years in prison.

Appendix B: Reference Web Links

NSPS Subpart Dc Standards for Performance for Small Industrial-Commercial-Institutional Steam Generating Units

- http://www.ecfr.gov/cgi-bin/text-idx?SID=91bd42d41cef8c2766b0bbbf5c101784&mc=true&node=sp40.7.60.d_0c&rgn=div6

NSPS Subpart OOO Standards of Performance for Nonmetallic Mineral Processing Plants

- http://www.ecfr.gov/cgi-bin/text-idx?SID=be87f56271e69c96a1b0bd1783f87bb0&node=pt40.7.60&rgn=div5#sp40.7.60.ooo

NSPS Subpart UUU Standards of Performance for Calciners and Dryers in Mineral Industries

- http://www.ecfr.gov/cgi-bin/text-idx?SID=e00a5dd8c6d0808bcf00f6bc6f14a76f&node=pt40.7.60&rgn=div5#sp40.7.60.uuu

NESHAP Subpart ZZZZ Stationary Reciprocating Internal Combustion Engines

- http://www.ecfr.gov/cgi-bin/text-idx?SID=fa4e2dbc200f1244aff85994237a488f&mc=true&node=sp40.14.63.zzzz&rgn=div6