

CLARK COUNTY
DEPARTMENT OF AIR QUALITY AND
ENVIRONMENTAL MANAGEMENT
500 South Grand Central Parkway, Box 555210, Las Vegas, Nevada 89155
Part 70 Operating Permit
Source: 4
Issued in accordance with the
Clark County Air Quality Regulations (AQR)

ISSUED TO: **CertainTeed Gypsum Manufacturing, Inc.**

SOURCE LOCATION:

HRC 89033, Box 2900
Las Vegas, NV 89124
T22S, R59E, Sections 4, 5, 8, and 9
Hydrographic Basin Number: 212

COMPANY ADDRESS:

HRC 89033, Box 2900
Las Vegas, NV 89124

NATURE OF BUSINESS:

SIC Code 3275 – Gypsum Products
NAICS: 327420 – Gypsum Products Manufacturing

RESPONSIBLE OFFICIAL:

Name: Glenn Abraham
Title: Plant Manager
Phone: (702) 875-4111 X 113
Fax Number: (702) 875-4155

Permit Issuance: **Date**

Expiration Date: **Date**

**ISSUED BY: CLARK COUNTY DEPARTMENT OF AIR QUALITY AND ENVIRONMENTAL
MANAGEMENT**

Tina Gingras
Assistant Director, Clark County DAQEM

EXECUTIVE SUMMARY

CertainTeed Gypsum Manufacturing, Inc. (CGM), owned by CertainTeed Corporation, is a major source for NO_x and CO; and a minor source for PM₁₀, SO_x, VOC, and HAP. The CGM is located one mile east of Blue Diamond, Nevada, in the Las Vegas Valley airshed, hydrographic basin number 212. Hydrographic basin 212 is nonattainment for CO, PM₁₀, and ozone, and PSD for all other regulated air pollutants. The CGM processes gypsum ore and manufactures wallboard. All manufacturing and support processes at the site are grouped under the Standard Industrial Classification 3275 – Gypsum Products (NAICS: 327420 – Gypsum Products Manufacturing). The emission units at the source include rock crushing and screening, transport of raw rock, mill operations, plaster operations, wallboard manufacturing, and gasoline dispensing facility.

The following table summarizes the potential to emit (PTE) for each regulated air pollutant:

PM ₁₀	NO _x	CO	SO _x	VOC	HAP
54.23	89.31	120.90	0.81	42.60	2.24

All general and specific conditions in the permit are federally enforceable unless explicitly denoted otherwise [AQR 19.4.2].

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PROPOSED

I. ACRONYMS

Table I-1: List of Acronyms

Acronym	Term
AQR	Clark County Air Quality Regulations
AST	Aboveground Storage Tank
ATC	Authority to Construct
ATC/OP	Authority to Construct/Operating Permit
Bhp	Brake Horsepower
BCC	Clark County Board of County Commissioners
CAO	Field Corrective Action Order
CARB	California Air Resources Board
CE	Control Efficiency
CEM	Continuous Emissions Monitoring System
CF	Control Factor
CFR	United States Code of Federal Regulations
CO	Carbon Monoxide
CPI	Urban Consumer Price Index
DAQEM	Clark County Department of Air Quality & Environmental Management
DEM	Digital Elevation Model
EF	Emission Factor
EO	Executive Order
EPA	United States Environmental Protection Agency
EU	Emission Unit
EVR	Enhanced Vapor Recovery
GDO	Gasoline Dispensing Operation
HAP	Hazardous Air Pollutant
HP	Horse Power
MMBtu	Millions of British Thermal Units
NAC	Nevada Administrative Code
NEI	Net Emission Increase
NO _x	Nitrogen Oxides
NOV	Notice of Violation
NRS	Nevada Revised Statutes
NSPS	New Source Performance Standards
NSR	New Source Review
OP	Operating Permit
PM ₁₀	Particulate Matter less than 10 microns
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RVP	Reid Vapor Pressure
scf	Standard Cubic Feet
SIP	State Implementation Plan
SO _x	Sulfur Oxides
TCS	Toxic Chemical Substance
TSD	Technical Support Document
UST	Underground Storage Tank
USGS	United States Geological Survey
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compound
VOL	Volatile Organic Liquid

II. GENERAL CONDITIONS

A. GENERAL REQUIREMENTS

1. The Permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Air Act (Act) and is grounds for enforcement action; for permit termination, revocation and reissuance or modification; or for denial of a permit renewal application. *[AQR 19.4.1.6.a]*
2. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall not be affected and shall remain valid. *[AQR 19.4.1.5]*
3. The Permittee shall pay all permit fees pursuant to AQR Section 18. Failure to pay Part 70 permit fees may result in citations or suspensions or revocation of the Part 70 Permit. *[AQR 19.4.1.7]*
4. The permit does not convey any property rights of any sort, or any exclusive privilege. *[AQR 19.4.1.6.d]*
5. The Permittee shall not hinder, obstruct, delay, resist, interfere with, or attempt to interfere with the Control Officer, or any individual to whom authority has been duly delegated for the performance of any duty by the AQR. *[AQR 5.1]*
6. The Permittee owning, operating, or in control of any equipment or property who shall cause, permit, or participate in any violation of the AQR shall be individually and collectively liable to any penalty or punishment imposed by and under the AQR. *[AQR 8.1]*
7. The Permittee shall continue to comply with applicable requirements for which the Permittee is in compliance. *[AQR 19.3.3.8.b]*
8. Any Permittee who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. *[AQR 19.3.2]*
9. The Permittee may request confidential treatment of any records in accordance with AQR Section 19. Emission data, standards or limitations [all terms as defined in 40 CFR 2.301(a)] or other information as specified in 40 CFR 2.301 shall not be considered eligible for confidential treatment. The Administrator and the Control Officer shall each retain the authority to determine whether information is eligible for confidential treatment on a case-by-case basis. *[AQR 19.3.1.3 and 40 CFR 2.301]*

B. MODIFICATION, REVISION, RENEWAL REQUIREMENTS

1. The Permittee shall not make a modification, as defined in AQR Section 0, to the existing source prior to receiving an Authority to Construct (ATC) from the Control Officer. *[AQR 12.1.1.1]*
2. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the Permittee for the permit modification, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[AQR 19.4.1.6.c]*

3. Any request for a permit modification must comply with the requirements of AQR Section 19. [AQR 19.5.5.1]
4. The Permittee shall not build, erect, install or use any article, machine, equipment or process, the use of which conceals an emission, which would otherwise constitute a violation of an applicable requirement. [AQR 80.1 and 40 CFR 60.12]
5. No permit revisions 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 the permit, provided the Permittee conforms to the applicable requirements of AQR Sections 12 and 58. [AQR 19.4.1.11]
6. For purposes of permit renewal, the Permittee shall submit a timely and complete application. A timely application is one submitted between six (6) months and 18 months prior to the date of permit expiration. [AQR 19.3.1.1.c]
7. Permit expiration terminates the Permittee's right to operate unless a timely and complete renewal application has been submitted consistent with AQR Subsections 19.3.1.1.c and 19.5.2 in which case the permit shall not expire and all terms and conditions of the permit shall remain in effect until the renewal permit has been issued or denied. [AQR 19.5.3.2]

C. REPORTING/NOTIFICATIONS/PROVIDING INFORMATION REQUIREMENTS

1. The Permittee shall furnish to the Control Officer, within a reasonable time, any information that the Control Officer 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 shall also furnish to the Control Officer copies of records required to be kept by the permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the Control Officer along with a claim of confidentiality. [AQR 19.4.1.6]
2. The Permittee shall allow the Control Officer or an authorized representative, upon presentation of credentials [AQR 4.3 and 19.4.3.2]:
 - a. entry upon the Permittee's premises where the source is located, or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
 - b. access to inspect and copy, at reasonable times, any records that must be kept under conditions of the permit;
 - c. access to inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - d. access to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
3. Upon request of the Control Officer, the Permittee shall provide such information or analyses as will disclose the nature, extent, quantity or degree of air contaminants which are or may be discharged by such source, and type or nature of control equipment in use, and such disclosures be certified by a professional engineer registered in the state. In addition to such report, the Control Officer may designate an authorized agent to make an independent study and report as to the nature, extent, quantity or degree of any air contaminants which are or may be discharged from source. An authorized agent so

designated is authorized to inspect any article, machine, equipment, or other contrivance necessary to make the inspection and report. [AQR 4.4]

D. COMPLIANCE REQUIREMENTS

1. The Permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the terms and conditions of this permit. [AQR 19.4.1.6.b]
2. Any person who violates any provision of this operating permit, including, but not limited to, any application requirement; any permit condition; any fee or filing requirement; any duty to allow or carry out inspection, entry or monitoring activities or any requirements by DAQEM is guilty of a civil offense and shall pay civil penalty levied by the Air Pollution Control Hearing Board/Hearing Officer of not more than \$10,000. Each day of violation constitutes a separate offense. [AQR 9.1]
3. Any person aggrieved by an order issued pursuant to AQR 9.1 is entitled to review as provided in Chapter 233B of Nevada Revised Statutes (NRS). [AQR 9.12]
4. The Permittee shall comply with the requirements of 40 CFR 61, Subpart M, of the National Emission Standard for Asbestos for all demolition and renovation projects. [AQR 13.1.7]
5. Requirements for compliance certification with terms and conditions contained in the operating permit, including emission limitations, standards, or work practices, are as follows [AQR 19.4.3]:
 - a. the Permittee shall submit compliance certifications annually in writing to the Control Officer (500 Grand Central Parkway, Box 555210, Las Vegas, NV 89155) and the Administrator at USEPA Region IX (Director, Air and Toxics Divisions, 75 Hawthorne St., San Francisco, CA 94105). A compliance certification for the previous calendar year will be due on January 30 of each year;
 - b. compliance shall be determined in accordance with the requirements detailed in AQR 19.4.1.3, record of periodic monitoring, or any credible evidence; and
 - c. the compliance certification shall include:
 - i. identification of each term or condition of the permit that is the basis of the certification;
 - ii. the Permittee's compliance status and whether compliance was continuous or intermittent;
 - iii. methods used in determining the compliance status of the source currently and over the reporting period consistent with Subsection 19.4.1.3;
 - iv. identification as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred [40 CFR 64.7]; and
 - v. other specific information required by the Control Officer to determine the compliance status of the source.
6. The Permittee shall promptly report to the Control Officer (500 Grand Central Parkway, Box 555210, Las Vegas, NV 89155) deviations from permit requirements as soon as practicable but not to exceed ten (10) calendar days of the deviation, including those attributable to upset conditions. Such reporting shall include the probable cause of such deviations and any corrective actions or preventative measures taken. [AQR 19.4.1.3]

7. The Permittee shall report to the Control Officer any upset, breakdown, malfunction or emergency, as defined in Section 0, which cause emissions of regulated air pollutants in excess of any limits set by regulation or by this permit, within one (1) hour of the onset of the event. This report shall be communicated by phone (702) 455-5942, or by fax (702) 383-9994. [AQR 25.2]
8. The Permittee shall include a certification of truth, accuracy, and completeness by a responsible official when submitting any application form, report, or compliance certification pursuant to this operating permit. This certification and any other certification required shall state, "Based on the information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete." This statement shall be followed by the signature and printed name of the responsible official certifying compliance and the date of signature. [AQR 19.3.4]

E. PERFORMANCE TESTING REQUIREMENTS

1. Upon request of the Control Officer, the Permittee shall test or have tests performed to determine the emissions of air contaminants from any source whenever the Control Officer has reason to believe that an emission in excess of that allowed by the DAQEM regulations is occurring. The Control Officer may specify testing methods to be used in accordance with good professional practice. The Control Officer may observe the testing. All tests shall be conducted by reputable, qualified personnel. The Control Officer (500 Grand Central Parkway, Box 555210, Las Vegas, NV 89155) shall be given a copy of the test results in writing and signed by the person responsible for the tests. [AQR 4.5]
2. Upon request of the Control Officer, the Permittee shall provide necessary holes in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants. [AQR 4.6]
3. The Permittee shall submit for approval a performance testing protocol which contains testing, reporting, and notification schedules, test protocols, and anticipated test dates to the Control Officer (500 Grand Central Parkway, Box 555210, Las Vegas, NV 89155) and to the Enforcement Office of the US EPA, Region IX (Director, Air and Toxics Divisions, 75 Hawthorne St., San Francisco, CA 94105), not less than 45 or more than 90 days prior to the anticipated date of the performance test. [AQR 12.8 and AQR 19.4.1.3]
4. The Administrator shall consider approving the Permittee's request for alternative performance test methods if proposed in writing in the performance test protocols. [AQR 12.8 and AQR 19.4.1.3]
5. The Permittee shall submit a report describing the results of the performance test to the Control Officer within 60 days from the end of the performance test. [AQR 12.8 and AQR 19.4.1.3]
6. Pursuant to AQR Section 10, the Permittee of any stationary source or emission unit that fails to demonstrate compliance with the emissions standards or limitations during any subsequent performance test shall submit a compliance plan to the Control Officer within 90 days from the end of the performance test. [AQR 12.8 and AQR 19.4.1.3]
7. Pursuant to AQR Subsection 4.5 additional performance testing may be required by the Control Officer. [AQR 12.8 and AQR 19.4.1.3]

III. SOURCE-WIDE PTE SUMMARY

[Authority for all values, limits, and conditions in this section: NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07) and NSR ATC 4, Modification 6, Revision 0, (05/29/08)]

CertainTeed Gypsum Manufacturing, Inc. is a major source for NO_x and CO; and a minor source for PM₁₀, SO_x, VOC, and HAP:

Table III-1: Source-wide PTE (tons per year)¹

Pollutant	PM ₁₀	NO _x	CO	SO _x	VOC	HAP
PTE Totals	54.23	89.31	120.90	0.81	42.60	2.24
Major Source Thresholds	70	50	70	70	50	25²

¹ The total PTE for the source includes the worst-case emissions between the primary and alternative operating scenarios.

² 25 tons for combination of all HAPs (no single HAP exceeds 10 tons).

IV. EMISSION UNITS AND APPLICABLE REQUIREMENTS

A. EMISSION UNITS AND PTE

[Authority for all values, limits, and conditions in this section: NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07) and NSR ATC 4, Modification 6, Revision 0, (05/29/08)]

The stationary source covered by this Part 70 Operating Permit (OP) is defined to consist of the emission units and associated appurtenances summarized in Table IV-A-1 through Table IV-A-16. [AQR 19.2.1 and 19.3.3.3]

Table IV-A-1: Group 3A Truck Unloading Station PTE

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
C.16	Paved Gypsum Import Haul Road (2.5 miles)	30502004	43,478.26 VMT	Sweeping	4.78	H1
C.17	Gypsum Rock Unloading	30502031	800,000	Baghouse	0.02	---
C.18	Useable Gypsum Rock Pile	30502507	0.52 acres	Moisture	0.03	S1
C.19	Dust Collector Reclaim to C-10 Belt	30502006	50.00	Baghouse	0.01	---
C.20	Hopper #1 to Discharge Belt #1	30502006	400,000	Baghouse	0.01	---
C.21	Hopper #2 to Discharge Belt #2	30502006	400,000	Baghouse	0.01	---
C.22	Discharge Belt #1 to C-10 Belt	30502006	400,000	Baghouse	0.01	---
C.23	Discharge Belt #2 to C-10 Belt	30502006	400,000	Baghouse	0.01	---
C.24	C-10 Belt to C-11 Belt	30502006	800,000	Moisture	0.72	P1
C.25	C-11 Belt to Diverter	30502006	800,000	Moisture	0.72	P1

¹ Type is a designation for emission unit billing purposes; P1 = process equipment and H1 = haul road. Fees are listed in Section 18 of the AQR.

Table IV-A-2-a: Group 5 Discharge Terminal PTE

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
E.1.1	Front End Loader (rock pile)	30501504	715,000	Moisture	1.48	P1
E.1.2	Rock Batch Drop	30501504	715,000	Moisture	1.48	P1
E.1.3	Front End Loader (recycle)	30501504	85,000	Moisture	0.18	P1
E.1.4	Recycle Batch Drop	30501504	85,000	Moisture	0.18	P1

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
E.2	Conveyor Transfer From Fold Belt	30501504	800,000	Moisture	1.66	P1
E.3	Unload to Conveyor	30501504	800,000	Moisture	1.66	P1
E.5	Crossover Belt to Conveyor	30501504	800,000	Moisture	1.66	P1
E.6	Conveyor Drop (to rock bins)	30501504	234,163	Moisture	0.46	P1
E.7	Conveyor Drop (to rock silos)	30501504	565,480	Moisture	1.17	P1
E.8	Conveyor Drop (to rock silos)	30501504	565,480	Moisture	1.17	P1
E.9	Batch Drop to Conveyor	30501503	565,480	Moisture	1.17	P1
E.9.1	End Saw Dust Drop to Conveyor	30501503	4,320	Baghouse ²	0.01	---
E.10	Batch Drop to CP Mill	30501504	565,480	Baghouse	0.03	---
E.12	Drop to Stucco Cooler	30501504	565,480	Baghouse	0.03	---

Table IV-A-2-b: Group 5 CP Mill PTE

EU	Description	Operating Conditions	Pollutant	PTE Tons/Year	Type ¹
E.11	CP Mill	0.00873 grains/dscf; 26,000 dscfm flowrate 45 MMBtu/hr; 8,760 hr/yr	PM ₁₀	8.54	P1
			NO _x	17.65	
			CO	1.01	
			SO ₂	0.13	
			VOC	0.57	
			HAP	0.35	

¹ Type is a designation for emission unit billing purposes; P1 = process equipment. Fees are listed in AQR 18.

² PM₁₀ emissions based on baghouse outlet grain loading.

Table IV-A-3-a: Group 6 Rolling Mills for Plaster Production PTE

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
F.1	Unload to Rolling Mill	30501504	300,000	Baghouse	0.02	---
F.2	Rolling Mill	30501502	270,442	Baghouse	0.83	P1
F.3	Cyclones	30501528	Emissions included in Rolling Mill			---
F.4	Recycle to Rolling Mill	30501504	Emissions included in Rolling Mill			P1
F.5.1	Unload to Collection Screw	30501504	270,442	Baghouse	0.02	---
F.5.2	Baghouse Hopper Unload	30501504	702	Baghouse	0.01	---
F.6.1	Unload to 3 LP Bins	30501504	100,000	Baghouse	0.01	---
F.6.3	Unload to 400-ton LP Bin	30501510	170,442	Baghouse	0.01	---

¹ Type is a designation for emission unit billing purposes; P1 = process equipment.

Table IV-A-3-b: Group 6 Flash Dryers for Plaster Production PTE

EU	Description	SCC	Operating Conditions	Pollutant	PTE Tons/Year	Type ¹
F.1.1	Flash Dryer #1	30501502	1.8 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.01	F1
				NO _x	0.79	
				CO	0.17	
				SO ₂	0.01	
				VOC	0.04	
				HAP	0.01	
F.1.2	Flash Dryer #2	30501502	1.8 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.01	F1
				NO _x	0.79	
				CO	0.17	
				SO ₂	0.01	

EU	Description	SCC	Operating Conditions	Pollutant	PTE Tons/Year	Type ¹
F.1.3	Flash Dryer #3	30501502	1.8 MMBtu/hr; 8,760 hr/yr	VOC	0.04	F1
				HAP	0.01	
				PM ₁₀	0.01	
				NO _x	0.79	
				CO	0.17	
				SO ₂	0.01	
				VOC	0.04	
				HAP	0.01	
F.1.4	Flash Dryer #4	30501502	1.8 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.01	F1
				NO _x	0.79	
				CO	0.17	
				SO ₂	0.01	
				VOC	0.04	
				HAP	0.01	
F.1.5	Flash Dryer #5	30501502	1.8 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.01	F1
				NO _x	0.79	
				CO	0.17	
				SO ₂	0.01	
				VOC	0.04	
				HAP	0.01	

¹Type is a designation for emission unit billing purposes; F1 = fuel burning equipment.

Table IV-A-4-a: Group 7 Plaster Production PTE

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
G.1	Unload to Bucket Elevator	30501504	600,000	Baghouse	0.03	P1
G.2	Unload to Dist. Screw	30501504	600,000	Baghouse	0.03	---
G.3.1	Unload to Board LP Bins	30501504	492,750	Baghouse	0.03	---
G.3.2	Unload to Plaster LP Bins	30501504	107,250	Baghouse	0.01	---
G.3.3	Unload to Conveyor	30501504	10,010	Baghouse	0.01	---
G.3.4	Unload to Sacker	30501517	10,010	Baghouse	0.01	---
G.4	Unload Screw – Old Lath Pit	30501504	2,503	Baghouse	0.01	---
G.5	Unload to Kettles – Board	30501510	492,750	Baghouse	0.03	---
G.6	Unload to Kettles – Plaster	30501510	117,260	Baghouse	0.01	---
G.7	4 Kettles – Board Stucco	30501511	492,750	Baghouse	0.94	P1
G.8	3 Kettles – Plaster Stucco	30501511	117,260	Baghouse	0.22	P1
G.9	Unload to Pits – Board	30501504	492,750	Baghouse	0.03	---
G.10	Unload to Pits – Stucco	30501504	117,260	Baghouse	0.01	---
G.11	Unload to Screw – Board	30501504	492,750	Baghouse	0.03	P1
G.12	Unload to Screw – Stucco	30501504	117,260	Baghouse	0.01	---
G.13	Unload to Screw	30501504	99,671	Baghouse	0.01	---
G.14	Unload to Bucket Elevator	30501504	99,671	Baghouse	0.01	---
G.15	Unload to Conveyor	30501504	10,010	Baghouse	0.01	---
G.16	Unload to Trucks	30501517	10,010	Baghouse	0.01	---

¹Type is a designation for emission unit billing purposes; P1 = process equipment. Fees are listed in AQR 18.

Table IV-A-4-b: Group 7 Kettles for Plaster Production PTE

EU	Description	SCC	Operating Conditions	Pollutant	PTE Tons/Year	Type ¹
G.1.1	Kettle Calciner #1	30501511	12 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.63	F1
				NO _x	5.26	
				CO	1.10	
				SO ₂	0.03	
				VOC	0.28	
				HAP	0.09	
G.1.2	Kettle Calciner #2	30501511	12 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.63	F1
				NO _x	5.26	
				CO	1.10	
				SO ₂	0.03	
				VOC	0.28	
				HAP	0.09	
G.1.3	Kettle Calciner #3	30501511	12 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.63	F1
				NO _x	5.26	
				CO	1.10	
				SO ₂	0.03	
				VOC	0.28	
				HAP	0.09	
G.1.4	Kettle Calciner #4	30501511	12 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.63	F1
				NO _x	5.26	
				CO	1.10	
				SO ₂	0.03	
				VOC	0.28	
				HAP	0.09	
G.1.5	Kettle Calciner #5	30501511	12 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.63	F1
				NO _x	5.26	
				CO	1.10	
				SO ₂	0.03	
				VOC	0.28	
				HAP	0.09	
G.1.6	Kettle Calciner #6	30501511	12 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.63	F1
				NO _x	5.26	
				CO	1.10	
				SO ₂	0.03	
				VOC	0.28	
				HAP	0.09	
G.1.7	Kettle Calciner #7	30501511	12 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.63	F1
				NO _x	5.26	
				CO	1.10	
				SO ₂	0.03	
				VOC	0.28	
				HAP	0.09	

¹ Type is a designation for emission unit billing purposes; F1 = fuel burning equipment. Fees are listed in AQR 18.

Table IV-A-5: Group 8 Plaster Operations PTE

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
H.1	Unload to Screw	30501504	94,809	Baghouse	0.01	P1
H.2	Unload to Bin #1	30501504	66,366	Baghouse	0.01	---

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
H.3	Unload to Screw	30501510	66,366	Baghouse	0.01	---
H.4	Unload to Hopper	30501504	66,366	Baghouse	0.01	---
H.5	Unload to Ball Mill	30501504	66,366	Baghouse	0.01	---
H.6	Ball Mill	30501515	66,366	Baghouse	0.20	P1
H.7	Unload to Bucket Elevator	30501504	66,366	Baghouse	0.01	P1
H.8	Unload to Screw	30501504	66,366	Baghouse	0.01	---
H.9	Unload to Hardwall Bin	30501504	66,366	Baghouse	0.01	---
H.10	Unload to Screw	30501514	66,366	Baghouse	0.01	---
H.10.1	Unload to Bin #2	30501504	28,443	Baghouse	0.01	---
H.10.2	Unload to Surge Bin	30501504	28,443	Baghouse	0.01	---
H.10.3	Unload to Entoleter	30501504	28,443	Baghouse	0.01	---
H.10.4	Entoleter	30501504	28,443	Baghouse	0.09	---
H.10.5	Unload to Screw	30501504	28,443	Baghouse	0.01	---
H.10.6	Unload to Elevator	30501504	28,443	Baghouse	0.01	---
H.10.7	Unload to Screw	30501504	28,443	Baghouse	0.01	---
H.11	Unload to Bin #2	30501504	28,443	Baghouse	0.01	---
H.12	Unload to Screw	30501510	28,443	Baghouse	0.01	---
H.13.1	Unload to Air Classifier	30501504	12,799	Baghouse	0.01	---
H.14.1	Unload to Screw	30501504	12,799	Baghouse	0.01	P1
H.14.2	Air Classifier Bypass	30501504	15,643	Baghouse	0.01	---
H.15	Unload to Elevator	30501504	28,443	Baghouse	0.01	---
H.16	Unload to Screw	30501504	28,443	Baghouse	0.01	---
H.17	Unload to Casting Bin	30501504	28,443	Baghouse	0.01	---
H.18	Unload to Screw	30501514	28,443	Baghouse	0.01	---
H.19.1	Mixer	30501516	28,443	Baghouse	0.01	---
H.19.2	Mixer	30501516	65,039	Baghouse	0.01	---
H.19.3	Mixer	30501516	1,327	Baghouse	0.01	---
H.20.1	Mixer Loading	30501517	29,960	Baghouse	0.01	---
H.20.2	Mixer Loading	30501517	32,519	Baghouse	0.01	---
H.20.3	Trucking Loading	30501504	400,000	Baghouse	0.61	P1
H.20.4	Supersacker	30501505	32,519	Baghouse	0.01	---
H.21	Pneumatic Transfer	30501510	1,327	Baghouse	0.01	---
H.22	Cement Unloading	30501511	1,517	Baghouse	0.01	---
H.23	Unload to Screw	30501512	1,517	Baghouse	0.01	---
H.24	Unload to Mixer	30501513	1,517	Baghouse	0.01	---

¹ Type is a designation for emission unit billing purposes; P1 = process equipment.. Fees are listed in AQR 18.

Table IV-A-6: Group 9 Stucco Storage Bins at Board Plant PTE

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
I.1	Unload Bucket Elevator	30501504	584,887	Baghouse	0.03	P1
I.2	Unload to Cooling Bins	30501504	438,665	Baghouse	0.03	---
I.3	Unload to Screw	30501504	438,665	Baghouse	0.03	---
I.5	Unload to Screw	30501504	584,887	Baghouse	0.03	---
I.6	Unload to 100-ton Bins	30501504	701,865	Baghouse	0.04	---
I.7	Unload to Screw	30501504	701,865	Baghouse	0.04	---
I.8	Unload to Surge Bin	30501518	701,865	Baghouse	0.04	---
I.9	Unload to Screw	30501518	701,865	Baghouse	0.04	---
I.10	Unload to Metering Screw	30501518	584,887	Baghouse	0.03	---
I.11	Unload to Recirculation Elevator	30501518	116,977	Baghouse	0.01	---

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
I.12	Unload to 100-ton Bins	30501518	116,977	Baghouse	0.01	---
I.13	Unload to Mixing Screw	30501518	584,887	Baghouse	0.03	---

¹Type is a designation for emission unit billing purposes P1 = process equipment. Fees are listed in AQR 18.

Table IV-A-7-a: Group 10 Board Plant PTE

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
J.1.1	Unload to Pin Mixer	30501518	584,887	Baghouse	0.03	P1
J.1.2	Unload to Edge Mixer	30501518	Emissions included in pin mixer		---	---
J.1.3	Wet Drop	30501518	Emissions included in pin mixer		---	---
J.4	Radial Center Saw ²	30501521 30501522	780.0	---	1.11	P1
J.5	4 End Saws ²	30501521 30501522	780.0	Baghouse	2.22	P1
J.6	Slutter Machine ³	30501503	8.00	Baghouse	0.14	---

¹Type is a designation for emission unit billing purposes; P1 = process equipment..

²Throughput for this emission unit is in million square feet of wallboard. The emission factor has units of pounds PM₁₀ per million square foot of wallboard and includes bag filter control.

Table IV-A-7-b: Group 10 Board Plant Heaters, Dryer, and Raw Materials PTE

EU	Description	SCC	Operating Conditions	Pollutant	PTE Tons/Year	Type ¹
J.2.1	Paper Heater #1	30901599	1.2 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.06	F1
				NO _x	0.53	
				CO	0.09	
				SO ₂	0.01	
				VOC	0.05	
				HAP	0.02	
J.2.2	Paper Heater #2	30901599	1.2 MMBtu/hr; 8,760 hr/yr	PM ₁₀	0.06	F1
				NO _x	0.53	
				CO	0.09	
				SO ₂	0.01	
				VOC	0.05	
				HAP	0.02	
J.3	AKI Board Dryer	30501520	135 MMBtu/hr; 8,760 hr/yr	PM ₁₀	8.10	F1
				NO _x	27.44	
				CO	110.63	
				SO ₂	0.35	
				VOC	1.64	
				HAP	1.09	
J.3.1	Wallboard Raw Materials ²	30501503	N/A	VOC	37.73	---

¹Type is a designation for emission unit billing purposes; F1 = fuel burning equipment. Fees are listed in AQR 18.

²The wallboard raw materials only include the surfactant, the dust control agent, wallboard ink and wallboard ink cleaner.

Table IV-A-8: Group 11 Accelerator System PTE

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
K.1	Unload to LP Bin	30501510	2,649	Enclosure	0.00	P1
K.2	Unload to Elevators	30501504	2,649	Enclosure	0.00	---
K.3	Unload to Screw	30501504	2,649	Enclosure	0.00	---

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
K.4	Unload to Screw	30501504	2,649	Enclosure	0.00	---
K.5	Unload to Elevators	30501504	2,649	Enclosure	0.00	---
K.6	Unload to Ball Mills	30501504	2,649	Enclosure	0.00	---
K.7	Unload to Screw	30501504	2,649	Enclosure	0.00	---
K.8	Unload to Hopper	30501504	2,649	Enclosure	0.00	---
K.9	Unload to 3" Conv. Tubing	30501504	2,649	Baghouse	0.01	---
K.10	Unload to Mill Rec.	30501504	2,649	Baghouse	0.01	---
K.11	Unload to Screw	30501504	2,649	Baghouse	0.01	---
K.12	Unload to Accelerator Bin	30501504	2,649	Baghouse	0.01	---
K.13	Unload to Stucco Mix Screw	30501504	2,649	Baghouse	0.01	---
K.14	Unload to Pin Mixer	30501504	2,649	Baghouse	0.01	---
K.15	Ball Mills	30501515	2,649	Baghouse	0.01	---

¹Type is a designation for emission unit billing purposes; P1 = process equipment. Fees are listed in AQR 18.

Table IV-A-9-a: Group 12 Wallboard Recycling System PTE

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
L.1	Front End Loading	30501504	85,000	Moisture	0.08	---
L.2	Unload to Feeder	30501504	85,000	Moisture	0.08	---
L.3	Chopper	30501504	85,000	Moisture	1.00	P1
L.4	Unload to Conveyor	30501504	85,000	Moisture	0.08	---
L.5	Unload to Pulverizer	30501506	85,000	Moisture	0.08	---
L.6	Pulverizer	30501504	85,000	Moisture	1.00	P1
L.7	Unload to Conveyor	30501504	85,000	Moisture	0.08	---
L.7.1	Unload to Screen	30501504	85,000	Moisture	0.08	---
L.7.2	Rotary Screen	30501504	85,000	Moisture	0.61	P1
L.7.3	Unload to Conveyor	30501507	85,000	Moisture	0.08	---
L.8	Unload to Conveyor	30501504	85,000	Moisture	0.08	---
L.9	Stacker to Product Pile	30501504	85,000	Moisture	0.31	P1
L.10	Finished Product Pile	30501508	0.21 acres	Moisture	0.08	---
L.11	Front End Loading	30501504	85,000	Moisture	0.08	---
L.12	Unload to Trucks	30501504	85,000	Moisture	0.08	---
L.13	Unpaved Haul Road (0.46 miles)	30502504	494.94 VMT	Moisture	0.19	H1
L.14	Unload to Stockpile	30501504	85,000	Moisture	0.08	---
L.15	Stockpile	30501508	0.21 acres	Moisture	0.08	S1
L.16	Unpaved Front End Loader Roads (reclaim) (0.08 miles)	30502504	1,383 VMT	Moisture	0.52	H1
L.17	Front End Loading (reclaim)	30501504	85,000	Moisture	0.08	---
L.18	Front End Loader to Silos	30501504	85,000	Moisture	0.08	---
L.19	Silo #1 to Belt Conveyor	30501504	42,500	Baghouse	0.01	---
L.20	Silo #2 to Belt Conveyor	30501504	42,500	Baghouse	0.01	---
L.21	Trim Waste to Belt Conveyor	30501504	25,000	Baghouse	0.01	---

¹Type is a designation for emission unit billing purposes; H1 = haul road, P1 = process equipment, and S1 = stockpiles. Fees are listed in Section 18 of the AQR.

Table IV-A-10-b: Group 12 Wallboard Recycling System Diesel Generator PTE

EU	Description	SCC	Operating Conditions	Pollutant	PTE Tons/Year	Type ¹
L.3.1	Electromagnetic Diesel Generator	20200102	400 hp; 2,000 hr/yr	PM ₁₀	0.17	CE2
				NO _x	2.35	

EU	Description	SCC	Operating Conditions	Pollutant	PTE Tons/Year	Type ¹
				CO	0.51	
				SO ₂	0.04	
				VOC	0.19	
				HAP	0.05	

¹Type is a designation for emission unit billing purposes; CE2 = stationary IC engine 351-800 hp. Fees are listed in Section 18 of the AQR.

Table IV-A-11: Group 13 Alternate Wallboard Recycling System Emission Units PTE

EU	Description	SCC	Throughput Tons/Year	Control Method	PTE Tons/Year	Type ¹
M.1	Front End Loading	30501503	85,000	Moisture	0.08	P1
M.2	Unload to Feeder	30501503	85,000	Moisture	0.08	P1
M.3	Unload to Conveyor	30501503	85,000	Moisture	0.08	P1
M.4	Unload to Conveyor	30501503	85,000	Moisture	0.08	P1
M.5	Grinder	30501510	85,000	Baghouse	0.03	---
M.6	Screen	30502511	85,000	Baghouse	0.02	---
M.7	Unload to Conveyor	30501503	1,700	Moisture	0.01	---
M.8	Unload to Oversize Pile	30501503	1,700	Moisture	0.01	---
M.9	Unload to Conveyor	30501503	5,100	Moisture	0.01	---
M.10	Unload to Paper Pile	30501503	5,100	Moisture	0.01	---
M.11	Unload to Conveyor	30501503	85,000	Moisture	0.08	P1
M.12	Unload to Conveyor	30501503	85,000	Moisture	0.08	P1
M.13	Stacker to Product Pile	30501506	85,000	Moisture	0.08	P1
M.14	Front End Loading	30501503	85,000	Moisture	0.08	---
M.15	Unload to Trucks	30501503	85,000	Moisture	0.08	P1
M.16	Unload to Stockpile	30501503	85,000	Moisture	0.08	P1
M.17	Unpaved Haul Road (0.46 miles)	30502504	494.94 VMT/yr	Moisture	0.19	H1

¹Type is a designation for emission unit billing purposes; P1 = process equipment, and H1 = Haul Road. Annual fees vary depending upon urban Consumer Price Index (CPI).

Table IV-A-12: Emergency Fire Pump Engine

EU	Description	SCC	Pollutant	Tons/Year	Type ¹
P.01	Emergency Fire Pump Engine ² ; 144 hp; 10.2 gal/hr; 0.5 hr/day; 30 hr/year	20200102	PM ₁₀	0.01	---
			NO _x	0.04	
			CO	0.02	
			SO ₂	0.01	
			VOC	0.01	
			HAP	0.01	

¹Type is a designation for emission unit billing purposes

Table IV-A-13: VOC PTE from Storage Tanks and Fuel Dispensing Activities

EU	Description	SCC	Gal/Year	VOC Tons/Year	HAP Tons/Year	Type ¹
T.1	Board Plant Gasoline Storage Tank – 1,000 gallons	40400311	16,000	0.08	0.01	T2
T.2	Gasoline Dispensing	40600403	16,000	0.09	0.01	---
T.3	Gasoline Spillage	40600403	16,000	0.01	0.01	---
T.4	Diesel Dispensing	40600403	36,000	0.02	0.01	---

¹Type is a designation for emission unit billing purposes; T2 = gasoline storage tank. Fees are listed in AQR 18.

Table IV-A-14: Emission Units Categorically Exempt from NSR

Description	Gal/Year
Board Plant Diesel Storage Tank – 1,500 gallons	13,500

B. EMISSION LIMITATIONS AND STANDARDS

[Authority for all values, limits, and conditions in this section: NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07) and NSR ATC 4, Modification 6, Revision 0, (05/29/08)]

1. Emission Limits

- a. The actual and allowable annual emissions shall not exceed the calculated PTE for each emission unit in Tables IV-A-1 through IV-A-14 above.
- b. The Permittee shall not allow visible emissions from the baghouses on all gypsum handling equipment, CP Mill, flash dryers, and kettle calciners to exceed 20 percent opacity when viewed in accordance with EPA Method 9. *[AQR 19.4.1.1]*
- c. The baghouses listed in Table IV-A-1 and Table IV-A-2-a, Table IV-A-4-a, and Table IV-A-6 through Table IV-A-13 inclusive, shall not exhibit visible emissions greater than seven (7) percent opacity, or discharge into the atmosphere emissions from any stack which contains particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf). *[40 CFR 60, Subpart OOO (60.672)]*
- d. The baghouses on the CP Mill (EU: E.11 and E.12) listed in Table IV-A-2-a shall not exhibit visible emissions greater than ten (10) percent opacity, or discharge into the atmosphere emissions from any stack which contain particulate matter in excess of 0.092 g/dscm (0.040 gr/dscf). *[40 CFR 60, Subpart UUU (60.732)]*
- e. The baghouses on the kettle calciners (EUs: G.1.1 through G.1.7) listed in Table IV-A-7-a shall not exhibit visible emissions greater than ten (10) percent opacity, or discharge into the atmosphere emissions from any stack which contain particulate matter in excess of 0.092 g/dscm (0.040 gr/dscf). *[40 CFR 60, Subpart UUU (60.732)]*
- f. Emissions from the emergency fire pump (EU: P.01) shall not be discharged into the atmosphere in excess of the following for each pollutant: *[40 CFR 60 Subpart IIII]*
 - i. NMHC + NO_x – 7.8 grams/hp-hr
 - ii. CO – 3.7 grams/hp-hr
 - iii. PM – 0.60 grams/hp-hr

2. Production Limits

- a. The Permittee shall limit the amount of usable gypsum rock to be processed to 7,200 tons per day and 800,000 tons per rolling 12-month period.
- b. The Permittee may process up to 85,000 tons of reject and/or recycled wallboard per rolling 12-month period. The sum of the reject wallboard recycled and the usable gypsum rock processed shall be limited to 800,000 tons per rolling 12-month period.
- c. The Permittee shall limit processing of gypsum rock at the truck unloading station to a total of 800,000 tons per rolling 12-month period.

- d. The Permittee shall limit throughput of board plant gasoline storage tank (EU: T.1) to a maximum of 16,000 gallons per rolling 12-month period.
- e. The Permittee shall limit gasoline fuel dispensing activities to 16,000 gallons per rolling 12-month period.
- f. The Permittee shall limit diesel fuel dispensing activities to 36,000 gallons per rolling 12-month period.
- g. The Permittee shall limit operation of the diesel power generator to 3,200 hours per rolling 12-month period (EU: L.3.2).
- h. The Permittee shall limit the operation of the Emergency Fire Pump Engine to 0.5 hours per day and 30 hours per year for testing and maintenance purposes (EU: P01). The Permittee shall install a non-resettable hour meter on the EU: P01. There are no limitations for operating during emergencies. *[40 CFR 60 Subpart III]*
- i. The Permittee shall not operate primary and alternate wallboard recycling systems at the same time
- j. The Permittee may operate the primary and alternate wallboard recycling systems to process up to a combined maximum total of 85,000 tons of waste/scrap wallboard per rolling 12-month period.

3. Emission Controls

- a. The Permittee shall control fugitive dust emissions from conveyors, storage piles, transfer points, and nonmetallic mineral processing equipment not connected to baghouse controls or part of the wet process by operational water sprays as needed to prevent exceeding opacity standards. *[AQR 19.4.1.1]*
- b. The Permittee shall operate the baghouses on all gypsum handling equipment, CP Mill, flash dryers, and kettle calciners at all times the processing equipment is operating. *[40 CFR 60, Subpart 000 and 40 CFR 60, Subpart UUU]*
- c. The Permittee shall operate the baghouses on all gypsum handling equipment, CP Mill, flash dryers, and kettle calciners to maintain a particulate control efficiency of at least 99.5 percent on each baghouse. *[AQR 19.4.1.1]*
- d. The Permittee shall insure no fugitive emissions are generated from each baghouse and that the pressure drop across each baghouse is maintained within the limits specified by the manufacturer. *[AQR 19.4.1.1]*
- e. The Permittee shall have a standard operating procedures (SOP) manual for baghouses. The procedures specified in the manual for maintenance shall, at a minimum, include a preventative maintenance schedule that is consistent with the baghouse manufacturer's instructions for routine and long-term maintenance. A copy of the maintenance schedule shall be kept on site. *[AQR 19.4.1.1]*
- f. The Permittee shall maintain a water spray system in good operating condition, as verified by a daily inspection, and be used at all times during the processing of the material. This shall include but not be limited to transfer points, drop points and stacker points excluding washed product processing. The Permittee shall investigate and correct any problems before resuming operations. The Control Officer at any time may require additional water sprays at pertinent locations if an inspection by the Control Officer indicates that the opacity limit is being exceeded. *[AQR 19.4.1.1]*

- g. The Permittee shall control fugitive dust emissions from conveyors, the useable gypsum storage pile in Group 3A and the storage piles (EUs: L.10 and L.15), transfer points, and nonmetallic mineral processing equipment not connected to baghouse controls by water sprays at emission points and/or maintenance of at least 0.5 percent moisture by weight in materials less than 1/4 inch in diameter. [AQR 19.4.1.1]
- h. The Permittee shall insure the water system is maintained in good operating condition by complying with the manufacturer's maintenance schedules to prevent the moisture content from falling below 0.5 percent. The DAQEM at any time may require additional watering systems if an inspection indicates that the opacity limits specified are being exceeded. [AQR 19.4.1.1]
- i. The Permittee shall not discharge from any source whatsoever quantities of air contaminants or other material which cause a nuisance. [AQR 40.1]
- j. The Permittee shall use only low sulfur diesel fuel (0.05 percent or less sulfur by weight) to fuel the diesel engine (EU: L.3.2). This engine shall be turbocharged and aftercooled. [AQR 29.1]
- k. The Permittee shall use only diesel fuel with a maximum sulfur content of 500 ppm and either minimum cetane index of 40 or a maximum aromatics content of 35 percent by volume may be used in the engine on the emergency fire pump (EU: P.01). [40 CFR 60 Subpart III]
- l. The emergency fire pump (EU: P.01) shall be turbocharged and aftercooled and shall be operated and maintained in accordance with the manufacturer's specification. A copy of the manufacturer's specification shall be kept on site. [AQR 19.4.1.1]
- m. The Permittee shall operate the emergency fire pump (EU: P.01) according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer. [40 CFR 60 Subpart III]
- n. The Permittee shall prevent fugitive VOC emissions from fuel dispensing activities by using the best available equipment, good operating practices, dispensing spillage cleanup and mitigation practices. Minor fuel spillage shall not be allowed to accumulate during reparative fuel dispensing activities. The Permittee shall train their employees involved with fuel dispensing activities on techniques for minimizing fuel transfer spillage. [AQR 19.4.1.1]
- o. The Permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following [40 CFR 63 Subpart CCCCCC (63.11116)]:
 - i. minimize gasoline spills;
 - ii. clean up spills as expeditiously as practicable;
 - iii. cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
 - iv. minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators;
 - v. the Permittee shall have records documenting gasoline throughput within 24 hours of a request of the Control Officer; and
 - vi. the Permittee must comply with the requirements of the 40 CFR 63, Subpart CCCCCC by January 10, 2011.

- p. The Permittee shall burn only natural gas in CP Mill, flash dryers, paper heaters, and kettle calciners. *[40 CFR 60, Subpart 000 and 40 CFR 60, Subpart UUU]*
- q. The Permittee shall take continual measures to control fugitive dust (e.g. wet, chemical or organic suppression, enclosures) at all mining and aggregate processing operations, material transfer points, stockpiles, truck loading stations and haul roads throughout the source. The Control Officer may at any time require additional water sprays or other controls at pertinent locations if an inspection indicates that opacity limits are being exceeded. *[AQR 19.4.1.1]*
- r. The Permittee shall not cause or allow fugitive dust to become airborne without taking reasonable precautions. *[AQR 19.4.1.1]*
- s. The Permittee shall not cause or allow the discharge of fugitive dust in excess of 100 yards from the point of origin or beyond the lot line of the property on which the emissions originate whichever is less. *[AQR 19.4.1.1]*
- t. Paved roads accessing or located on the site shall be swept and/or rinsed as necessary to remove all observable deposits and so as not to exhibit opacity greater than 20 percent as determined by observations based on EPA Method 9, or an instantaneous opacity greater than 50 percent. In addition, silt loading shall not exceed 0.33 ounces per square foot regardless of the average number of vehicles per day. *[AQR 19.4.1.1]*
- u. The Permittee shall insure that all unpaved roads accessing or located on the site will be treated with chemical or organic dust suppressant and watered as necessary, or paved, or graveled, or have an alternate, Control Officer-approved control measure applied so as not to exhibit opacity greater than 20 percent or an instantaneous opacity greater than 50 percent. In addition, silt content shall not exceed six (6) percent or silt loading shall not exceed 0.33 ounces per square foot (depending on the control method chosen) regardless of the average number of vehicles per day. *[AQR 19.4.1.1]*
- v. The Permittee shall not allow mud or dirt to be tracked out onto a paved road where such mud or dirt extends 50 feet or more in cumulative length from the point of origin, nor shall any trackout be allowed to accumulate to a depth greater than 0.25 inches. Notwithstanding the preceding, all accumulations of mud or dirt on curbs, gutters, sidewalks or paved roads including trackout less than 50 feet in length and/or less than 0.25 inches in depth shall be cleaned of all observable deposits and maintained to eliminate emissions of fugitive dust. *[AQR 19.4.1.1]*
- w. The Permittee shall ensure that all loaded trucks, regardless of ownership, shall be properly covered to prevent visible emissions. *[AQR 19.4.1.1]*
- x. Fugitive dust emissions from any disturbed open area or disturbed vacant lot that are owned or operated by the Permittee shall be controlled by paving, applying gravel, applying a dust palliative or applying water to form a crust. Areas deemed disturbed shall be determined using the Drop Ball Test as described in AQR Section 90. *[[AQR 19.4.1.1 and AQR 90.4]*
- y. Particulate matter emissions from any unpaved parking lot owned or operated by the Permittee shall be controlled by paving, applying a dust palliative or by an alternate method pre-approved by the Control Officer regardless of the number of days of use. *[AQR 19.4.1.1]*
- z. Where a stationary source, or a portion thereof, is to be closed or idled for a period of 30 days or more, the Permittee shall insure that long-term stabilization of disturbed areas shall be implemented within ten (10) days following the cessation of active operations. Long-term stabilization includes, but is not limited to, one or more of the following: applying water to form a crust, applying palliatives, applying gravel, paving, denying unauthorized access or other effective control measure to prevent fugitive dust from becoming airborne. *[AQR 19.4.1.1]*

C. MONITORING

1. The Permittee shall demonstrate compliance with the minimum moisture content (0.5 percent for screens, crushers, conveyors, storage piles, transfer points, and nonmetallic mineral processing equipment not connected to baghouse controls or part of the wet process) by conducting moisture testing and recording the results at least once each week on materials less than 1/8 inches in diameter in accordance with ASTM Standard C 566-97: Standard Test Method for Total Moisture Content of Aggregate by Drying. [AQR 12.8 and AQR 19.4.1.3]
2. On-site personnel familiar with EPA Method 9 shall perform visible emissions checks on all operations at least once per day, or more if meteorological conditions warrant it. [AQR 12.8 and AQR 19.4.1.3]
3. If the observer, during the visible emissions check, does not see any plume that, on an instantaneous basis, appears to exceed the opacity standard, then the observer shall keep a record of the name of the observer, the date on which the observation was made, the location, and the results of the observation. [AQR 19.4.1.3]
4. If the observer sees a plume that, on an instantaneous basis, appears to exceed the opacity standard, then the Permittee shall have a certified VE observer take an EPA Method 9 observation of the plume and record the results. [AQR 19.4.1.3]
5. If Method 9 readings can not be obtained, the observer shall also indicate in the log: a) the reason why a Method 9 could not be performed, b) the color of the emissions, c) whether the emissions were light or heavy, d) the cause of the abnormal emissions, and e) any corrective action taken. [AQR 19.4.1.3]
6. The Permittee shall investigate any occurrence of visible fugitive dust. Corrective actions shall be immediately taken to correct causes of fugitive dust in excess of allowable opacity limits. [AQR 19.4.1.3]
7. The Permittee shall conduct daily monitoring of the pressure drop across each baghouse cell with the installation and operation of a pressure differential (Magnehelic) gauge per manufacturer's specifications. [AQR 12.8 and AQR 19.4.1.3]
8. The Permittee shall make annual visual inspections of the baghouse interior for air leaks. Defective baghouse compartments shall be sealed off and repairs completed within five (5) working days of the discovery of the malfunction. Should the malfunction cause the baghouse to be ineffective in controlling particulate emissions, the processing of material shall cease until such repairs to the baghouse are completed. [AQR 12.8 and AQR 19.4.1.3]
9. Compliance Assurance Monitoring:
 - a. Only emission units with pre-control emissions exceeding 70 tons per year of PM₁₀ are subject to the CAM rule. Table IV-C-1 lists the emission units at the facility that are subject to the CAM rule. [AQR 19.4.1.3]:

Table IV-C-1: Emission Units Subject to CAM

EU	Description	Control Device	PM ₁₀ Pre-control Emissions (tpy)
H.6, H.10.3, H.10.4	Plaster Ball Mill and Entoleter	Baghouse	156.2
H.20.3	Bulk Truck Loading	Baghouse	133.6
J.4, J.5, J.6	Radial Center Saw, End Saws and Slutter Machine	Baghouse	746.3

- b. Daily measurements of pressure differential between inlet and outlet of the baghouse (Δp) for PM₁₀ and visible emissions for opacity were selected as CAM indicators. For opacity readings, the absence of visible emissions demonstrates compliance. The key elements of the monitoring approach are presented in Table IV-C-2 [AQR 19.4.1.3]:

Table IV-C-2: Monitoring Approach

CAM Element	Indicator 1	Indicator 2
Indicator	Pressure differential (Δp) for PM ₁₀ .	Visible emissions for opacity.
Measurement Approach	The Δp will be measured daily; the time of reading and the Δp will be recorded.	Daily visual observations of baghouse stack discharges shall be made to verify that visible emissions are not present. If visible emissions are observed, a Method 9 opacity reading will be performed.
Indicator Range	The indicator range for Δp is 3-8 inches of water for EUs: H.6, H.10.3, H.10.4. An excursion is defined as any measured Δp outside the range of 3 and 8 inches of water. The indicator range for Δp is 1-5 inches of water for EUs: H.20.3, J.4, J.5, J.6. An excursion is defined as any measured Δp outside the range of 1 and 5 inches of water. The proposed QIP threshold is three (3) excursions in each quarterly reporting period.	For opacity, the indicator is no visible emissions. Excursions trigger an investigation, corrective actions and a reporting requirement. The proposed QIP threshold is three (3) excursions in each quarterly reporting period.
Performance Criteria Data Representativeness	Measurements will be made at the emission point.	Measurements will be made at the emission point.
Verification of Operational Status	The Δp gauge will be installed, calibrated, and operated per manufacturer recommendations.	Not applicable.
QA/QC Practices and Criteria	The Δp gauge will be calibrated annually.	The visible opacity observations will be made by a certified observer.
Monitoring Frequency	Daily records of Δp will be made.	Daily visual observations will be made.
Data Collection Procedures	Differential pressure (Δp) will be measured with a Magnehelic pressure gauge or equivalent device and recorded daily.	The visible opacity observations will be made by a certified observer.
Averaging Period	Not applicable.	Not applicable.

D. TESTING

1. The Permittee shall conduct initial performance tests on emission units listed in Table IV-D-1 within 60 days after achieving the maximum production rate at which the source will be operated but no later than 180 days after initial startup. [AQR 12.8 and AQR 19.4.1.3]
2. The Permittee shall demonstrate compliance with the opacity standards and particulate emission standards expressed in g/dscm or gr/dscf, as listed in Table IV-D-1, by conducting performance test on emission units listed in Table IV-D-1 in accordance with 40 CFR 60 Reference Method 9 (Standards for Opacity) and Reference Method 22. [AQR 12.8 and AQR 19.4.1.3]
3. Regardless of the date of issuance of this permit, the Performance Testing Frequency shall be performed as delineated in Table IV-D-1 [AQR 12.8 and AQR 19.4.1.3]:

Table IV-D-1: Performance Testing Standards and Frequency

EU	Description	NSPS/AQR Applicability	Compliance Standard	Performance Test	Frequency
C.17, C.19 – C.23	Gypsum Handling, Rock Unloading Hoppers #1 and #2, Rock Unloading Hopper Discharge Belts #1 and #2 (Baghouse)	OOO/ Section 34	7 percent opacity	Method 9	Annual
			0.05g/dscm (0.022gr/dscf)	Method 5 or Method 17	Every 5 years
C.24	C10 Belt	OOO/ Section 34	7 percent opacity	Method 9	Annual
C.25	C11 Belt	OOO/ Section 34	7 percent opacity	Method 9	Annual
E.1.2	Rock Feed Hopper	OOO	7 percent opacity	Method 9	Annual
E.1.3	Reclaim Feed Hopper	OOO	7 percent opacity	Method 9	Annual
E.2	C3 Foldbelt	OOO	7 percent opacity	Method 9	Annual
E.6	Conveyor Drop to Rock Bin	OOO	7 percent opacity	Method 9	Annual
E.7	Rock Storage Silos #1 and #2 Feedbelt	OOO	7 percent opacity	Method 9	Annual
E.8	Rock Storage Silos #1 and #2	OOO	7 percent opacity	Method 9	Annual
E.9	Rock Storage Silos #1 and #2 Discharge Belt	OOO	7 percent opacity	Method 9	Annual
E.10	CP Mill Rock Bin Binvent	OOO	7 percent opacity	Method 9	Annual
E.11, E.12	CP Mill Baghouse	UUU	10 percent opacity	Method 9	Annual
			0.092g/dscm (0.040gr/dscf)	Method 5 or Method 17	Every 5 years
F.1, F.2	Roller Mill Baghouses (5)	Section 34	7 percent opacity	Method 9	Annual

EU	Description	NSPS/AQR Applicability	Compliance Standard	Performance Test	Frequency
F.5.1, F.5.2, F.6.1, F.6.2, G.3.1, G.3.2	LP Bins Baghouse	Section 34	7 percent opacity	Method 9	Annual
G.5, G.7, G.9	Kettle Calciner Baghouses (7)	Section 34	7 percent opacity	Method 9	Annual
H.1 – H.10, H.10.1 – H.10.7, H.11 – H.18	Finish Bin Baghouse	OOO	7 percent opacity	Method 9	Annual
			0.05g/dscm (0.022gr/dscf)	Method 5 or Method 17	Every 5 years
H.20.1, H.23, H.24	Mixer #3 Baghouse	Section 34	7 percent opacity	Method 9	Annual
H.19.3, H.20.2	Mixer #5 Baghouse	Section 34	7 percent opacity	Method 9	Annual
H.19.2, H.20.4	Mixer #6 Baghouse	OOO	7 percent opacity	Method 9	Annual
H.20.3, H.21	Bulk Plaster Loading Baghouse	OOO	7 percent opacity	Method 9	Annual
			0.05g/dscm (0.022gr/dscf)	Method 5 or Method 17	Every 5 years
I.14	Stucco Cooler Baghouse	Section 34	7 percent opacity	Method 9	Annual
J.1.1, J.1.2, K.12	Board Plant Stucco Bins Baghouse	OOO	7 percent opacity	Method 9	Annual
			0.05g/dscm (0.022gr/dscf)	Method 5 or Method 17	Every 5 years
J.4, J.5, J.6	End Trim Baghouse	Section 34	7 percent opacity	Method 9	Annual
K.1	LP Bin (accelerator) Binvent	Section 34	7 percent opacity	Method 9	Annual
K.2 - K.15	Accelerator Ball Mill Baghouse	OOO	7 percent opacity	Method 9	Annual
			0.05g/dscm (0.022gr/dscf)	Method 5 or Method 17	Every 5 years
L.3, L.4, L.5, L.6, L.7, L.8, L.17, L.18	Recycle System	OOO	7 percent opacity	Method 9	Annual
M.3, M.4, M.7, M.8, M.14	Alternate Recycle System	OOO	7 percent opacity	Method 9	Annual
M.5, M.6, L.19, L.20, L.21, M.11, M.12	Gypsum Wallboard Recycling	OOO	7 percent opacity	Method 9	Annual
			0.05g/dscm (0.022gr/dscf)	Method 5	Every 5 years

4. Upon written request by the Control Officer, the Permittee may be required to conduct performance testing on the emergency fire pump (EU: P.01) to demonstrate compliance

with the emission limits in 40 CFR 60, Subpart IIII. [AQR 19.4.1.3 and 40 CFR 60, Subpart IIII]

E. RECORD KEEPING

1. For all inspections, visible emission checks, and testing required under monitoring, logs, reports, and records shall include at least the date and time, the name of the person performing the action, the results or findings, and the type of corrective action taken (if required). [AQR 19.4.1.3]
2. All records and logs (or a copy thereof) required by this permit shall be kept on-site for a minimum of five (5) years from the date the measurement or data was entered. [AQR 19.4.1.3]
3. Records and data required by this permit shall be maintained by the Permittee and may, at the Permittee's expense, be audited at any time by a third party selected by the Control Officer. [AQR 19.4.1.3]
4. All records associated with acquisition of aggregate material used in the manufacturing process shall be kept by the Permittee and made available to the Control Officer for inspection upon request. [AQR 19.4.1.3]
5. Records and logs shall contain, at minimum, the following information [AQR 19.4.1.3]:
 - a. hours of operation of all process equipment;
 - b. daily, quarterly, and annual production (based on a 12-month rolling total) of gypsum processed via the truck unloading system;
 - c. daily, quarterly, and annual production (based on a 12-month rolling total) of recycled gypsum wallboard;
 - d. monthly and quarterly records of usage of all VOC-containing materials used in the manufacture of wallboard;
 - e. results of weekly moisture sampling;
 - f. hours of operation for each natural gas-fired emission unit;
 - g. hours of operation and amount of diesel fuel used by each engine/generator in a daily log with monthly summations;
 - h. annual throughput of the gasoline storage tank;
 - i. length of the on-site haul road(s);
 - j. log of dust control measures applied to the paved haul roads, unpaved haul roads, and storage piles;
 - k. log of control device inspections, maintenance, and repair;
 - l. log of daily pressure drop across each baghouse cell;
 - m. results of daily visible emission observations of the operations;
 - n. results of daily visual observations of baghouses;
 - o. MSDS records of all VOC-containing materials used in the manufacture of wallboard;
 - p. sulfur content of diesel fuel; and
 - q. results of performance testing.
6. The Permittee shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment [40 CFR 60.676]:
 - a. For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or rail loading station: the rated capacity in tons per hour of the existing facility being replaced and the rated capacity in tons per hour of the replacement equipment;
 - b. For screening operation: the total surface area of the top screen of the existing screening operation being replaced and the total surface area of the top screen of the replacement operation;

- c. For a conveyor belt: the width of the existing belt being replaced and the width of the replacement conveyor belt;
 - d. For a storage bin: the rated capacity in tons of the replacement storage bins.
7. The Permittee shall maintain records of any malfunction of the air pollution control equipment; or any periods during which a monitoring device is inoperative. [40 CFR 60.7(b)]
 8. Sulfur content of diesel fuel shall be certified by the supplier with each fuel delivery. [AQR 19.4.1.3]

F. REPORTING

1. The Permittee is responsible for submitting quarterly reports to DAQEM. [AQR 19.4.1.3]
2. Each quarterly report shall [AQR 19.4.1.3]:
 - a. include, as the first page of text, a signed certification containing the sentence, "I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this document are true, accurate and complete." This statement shall be signed and dated by a responsible official of the company;
 - b. include quarterly summaries of items listed in Conditions IV-E-3-a through i;
 - c. include quarterly summaries of any permit deviations, their probable cause and corrective actions or preventative actions taken;
 - d. be based on the calendar quarter (including partial calendar quarters);
 - e. be submitted within 30 days after the end of the calendar quarter; and
 - f. be addressed to the attention of the Control Officer.
3. Regardless of the date of issuance of this permit, the schedule for the submittal of reports to the Control Officer shall be as follows [AQR 12.8 and 19.4.1.3]:

Table IV-F-1: Quarterly Reporting Schedule

Quarter	Applicable Period	Due Date ¹	Required Contents
1	January, February, March	April 30 each year	Quarterly Report for 1st Calendar Quarter
2	April, May, June	July 30 each year	Quarterly Report for 2nd Calendar Quarter
3	July, August, September	October 30 each year	Quarterly Report for 3rd Calendar Quarter
4	October, November, December	January 30 each year	Quarterly Report for 4th Calendar Quarter
4	Calendar Year	January 30 Each year	Annual Compliance Certification Report

¹Each report must be received by DAQEM on or before the due date listed. If the due date falls on a Saturday, Sunday or a Federal or Nevada holiday, then the submittal is due on the next regularly scheduled business day.

4. The following requirements apply to annual emissions inventory reports: [AQR 19.4.1.3]
 - a. The annual emissions inventory shall be received by DAQEM no later than March 31 after the reporting year.
 - b. The Permittee shall submit the report to DAQEM.
 - c. The report shall be addressed to the attention of the DAQEM Control Officer.

- d. The report shall include the emission factors and calculations used to determine the emissions from each permitted emission unit, even when an emission unit is not operated.
5. Each annual performance test report shall: *[AQR 19.4.1.3]*
 - a. have, as the first page of text, a signed Annual Throughput Report and Certification Form;
 - b. be addressed to the attention of the DAQEM Control Officer;
 - c. be submitted **within 60 days** from the end of an annual test; and
 - d. contain the results of the test.
6. Each annual gasoline dispensing facility and vapor recovery equipment survey shall: *[AQR 19.4.1.3]*
 - a. be submitted within 30 days of receipt of survey;
 - b. contain the description of Phase I and II vapor recovery equipment;
 - c. contain the number of aboveground storage tanks and hoses;
 - d. contain the name of owner or operator responsible for vapor recovery system operation;
 - e. The Permittee shall submit the report to DAQEM; and
 - f. be addressed to the attention of the DAQEM Control Officer.
7. Pursuant to AQR Section 25, the Permittee shall report any upset/breakdowns or emergencies resulting in excess emissions of air pollutants to the Control Officer within one (1) hour of the onset of the occurrence. (Phone: (702) 455-5942, Fax: (702) 383-9994). *[AQR 12.8 and 19.4.1.3]*
8. When requested by the Control Officer, the Permittee may be required to submit additional reports to verify compliance with permit conditions, permit requirements and requirements of applicable regulations. *[AQR 4.4 and AQR 19.4.1.3]*

V. OTHER REQUIREMENTS

1. The Permittee shall not use, sell, or offer for sale any fluid as a substitute material for any motor vehicle, residential, commercial, or industrial air conditioning system, refrigerator freezer unit, or other cooling or heating device designated to use a chlorofluorocarbon (CFC) or hydrochlorofluorocarbon (HCFC) compound as a working fluid, unless such fluid has been approved for sale in such use by the Administrator. The Permittee shall keep record of all paperwork relevant to the applicable requirements of 40 CFR 82 on site. *[40 CFR 82]*

VI. ATTACHMENTS

1. APPLICABLE REGULATIONS

REQUIREMENTS SPECIFICALLY IDENTIFIED AS APPLICABLE:

1. Nevada Revised Statutes (NRS), Chapter 445B.
2. Clark County Air Quality Regulations (CCAQR) Applicable CCAQR Sections:

Citation	Title
CCAQR Section 0	Definitions
CCAQR Section 4	Control Officer
CCAQR Section 11	Ambient Air Quality Standards
CCAQR Section 12.1	General application requirements for construction of new and modified sources of air pollution
CCAQR Section 12.2.2	Requirements for specific air pollutants: PM ₁₀ emission source located in the Serious Non-Attainment Area.
CCAQR Section 12.2.7	Requirements for specific air pollutants: CO sources located in the Serious Non-Attainment Area.
CCAQR Section 12.2.12	Requirements for specific air pollutants: VOC sources located in the VOC Management Area.
CCAQR Section 12.2.14	Requirements for specific air pollutants: NO _x sources located in the NO _x Management Area.
CCAQR Section 12.2.16	Requirements for specific air pollutants: SO ₂ sources located in the PSD area.
CCAQR Section 12.2.19	Requirements for specific air pollutants: TCS sources in Clark County
CCAQR Section 12.5	Air Quality Models
CCAQR Section 14.1.1 Subpart A	New Source Performance Standards (NSPS) General Provisions
CCAQR Section 14.1.94 Subpart OOO	New Source Performance Standards – Standards of Performance for Nonmetallic Mineral Processing Plants
CCAQR Section 14.1.101 Subpart UUU	Standards of Performance for New Stationary Sources (NSPS) – Calciners and Dryers in Mineral Industries
CCAQR Section 16	DAQEM Operating Permits
CCAQR Section 17	Dust Control Permit for Construction Activities Including Surface Grading and Trenching
CCAQR Section 18	Permit and Technical Service Fees
CCAQR Section 19	40 CFR Part 70 Operating Permits
CCAQR Section 25	Upset/Breakdown, Malfunctions
CCAQR Section 26	Emissions of Visible Air Contaminants
CCAQR Section 27	Particulate Matter from Process Weight Rate
CCAQR Section 28	Fuel Burning Equipment
CCAQR Section 29	Sulfur Content of Fuel Oil
CCAQR Section 40	Prohibition of Nuisance Revision 0s
CCAQR Section 41	Fugitive Dust
CCAQR Section 42	Open Burning
CCAQR Section 43	Odors in the Ambient Air
CCAQR Section 55.5	Preconstruction review for New or Modified Stationary Sources in the 8-Hour Ozone Nonattainment Area
CCAQR Section 70.4	Emergency Procedures

3. Clean Air Act, as amended (CAAA), Authority: 42 U.S.C. § 7401, et seq

4. Title 40 of the Code of Federal Regulations (40 CFR) Applicable 40 CFR Subsections:

Citation	Title
40 CFR Part 52.21	Prevention of Significant Deterioration (PSD)
40 CFR Part 52.1470	SIP Rules
40 CFR Part 60, Subpart A	Standards of Performance for New Stationary Sources (NSPS) – General Provisions
40 CFR Part 60, Subpart OOO	New Source Performance Standards – Standards of Performance for Nonmetallic Mineral Processing Plants
40 CFR Part 60, Subpart UUU	Standards of Performance for New Stationary Sources (NSPS) – Calciners and Dryers in Mineral Industries
40 CFR Part 60, Subpart IIII	Standards of Performance for New Stationary Sources (NSPS) – Stationary Compression Ignition (CI) Internal Combustion Engines (ICE)
40 CFR Part 60	Appendix A, Method 9 or equivalent, (Opacity)
40 CFR Part 63, Subpart CCCCC	National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing facilities
40 CFR Part 64	Compliance Assurance Monitoring
40 CFR Part 70	Federally Mandated Operating Permits

2. EMISSION UNITS CONTROLLED BY BAGHOUSES

List of Emission Units Controlled by Baghouses

EU	Description	Pollutant	Control Technology
F.1.1 – F.1.5; F.2	Five Roller Mills & Flasher Dryers	PM	Baghouse
E.11	CP Mill Stack	PM	Baghouse
H.6	Ball Mill	PM	Baghouse
H.10.4	Entoleter	PM	Baghouse
K.15	Accelerator Ball Mills	PM	Baghouse
I.1	Unload Bucket Elevator	PM	Encl. Baghouse
H.9	Unload to Hardwall Bin	PM	Encl. Baghouse
H.10.3	Unload to Entoleter	PM	Encl. Baghouse
H.17	Unload to Casting Bin	PM	Encl. Baghouse
H.10.2	Unload to Surge Bin	PM	Encl. Baghouse
14-2	Stucco Recirculation Elevator	PM	Encl. Baghouse
14-3	Cooling Bin Elevator	PM	Encl. Baghouse
14-4	Additive Feeder #3/#4/#5 Elevator	PM	Encl. Baghouse
G2-1	Aggie Gypsum Packer	PM	Baghouse
H.20.4	Supersacker	PM	Baghouse
E.10	Batch Drop to CP Mill	PM	Encl. Baghouse
G.3.1	Unload to Board LP Bins	PM	Encl. Baghouse
G.3.2	Unload to Plaster LP Bins	PM	Encl. Baghouse
G.3.3	Unload to Conveyor	PM	Encl. Baghouse
G.3.4	Unload to Sacker	PM	Encl. Baghouse
H.2; H10.1; H10.2; H.11; H.17	Plaster Bins	PM	Encl. Baghouse
I.2	Unload to Cooling Bins	PM	Encl. Baghouse
I.6	Unload to 100-ton Bins	PM	Encl. Baghouse
I.8	Unload to Surge Bin	PM	Encl. Baghouse
I.12	Unload to 100-ton Bins	PM	Encl. Baghouse
K.1	Unload to LP Bin	PM	Encl. Baghouse
K.12	Unload to Accelerator Bin	PM	Encl. Baghouse
H.20.3	Trucking Loading	PM	Baghouse

EU	Description	Pollutant	Control Technology
G.16	Unload to Trucks	PM	Baghouse
G.1.1	Kettle Calciner #1	PM	Baghouse
G.1.2	Kettle Calciner #2	PM	Baghouse
G.1.3	Kettle Calciner #3	PM	Baghouse
G.1.4	Kettle Calciner #4	PM	Baghouse
G.1.5	Kettle Calciner #5	PM	Baghouse
G.1.6	Kettle Calciner #6	PM	Baghouse
G.1.7	Kettle Calciner #7	PM	Baghouse

PROPOSED