

**CLARK COUNTY**  
**DEPARTMENT OF AIR QUALITY**  
*4701 West Russell Road, Suite 200, Las Vegas, Nevada 89118*

**Part 70 Operating Permit**  
**Source: 4**

Issued in accordance with the  
Clark County Air Quality Regulations  
(AQR Section 12.5)

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

**SOURCE LOCATION:**

13500 Blue Diamond Highway  
Las Vegas, NV 89161  
T22S, R59E, Sections 4, 5, 8, and 9  
Hydrographic Basin Number: 212

**COMPANY ADDRESS:**

13500 Blue Diamond Highway  
Las Vegas, NV 89161

**NATURE OF BUSINESS:**

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

**RESPONSIBLE OFFICIAL:**

Name: Kevin Murry  
Title: Acting Plant Manager  
Phone: (702) 875-4111  
Fax Number: (702) 875-4213

**Permit Issuance: March 18, 2016**  
**Revision Date: August 26, 2016**

**Expiration Date: March 17, 2021**

**ISSUED BY: CLARK COUNTY DEPARTMENT OF AIR QUALITY**



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Richard D. Beckstead  
Permitting Manager, Clark County Department of Air Quality

## EXECUTIVE SUMMARY

CertainTeed Gypsum Manufacturing, Inc. (CGM) is a major Part 70 source for CO and a minor source for PM<sub>10</sub>, NO<sub>x</sub>, SO<sub>x</sub>, VOC and HAP.

CGM is located one mile east of Blue Diamond, Nevada, in the Las Vegas Valley airshed, hydrographic basin number 212. Hydrographic basin 212 is currently in attainment for all regulated air pollutants. CGM processes gypsum ore and manufactures wallboard. All manufacturing and support processes at the site are grouped under the Standard Industrial Classification (SIC) Code 3275: Gypsum Products (NAICS Code 327420: Gypsum Products Manufacturing). The emission units at the source include gypsum rock crushing and screening, transport of raw gypsum rock, mill operations, plaster operations, wallboard manufacturing, and gasoline dispensing.

This revision to the Part 70 Operating Permit (OP) is issued based on an AQR 12.4.3.2(b) application for a minor modification submitted on April 15, 2016.

The following table summarizes the source PTE for each regulated air pollutant:

### Source Wide PTE (tons per year)

Pollutants	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	CO	SO <sub>x</sub>	VOC	HAP
Source PTE	61.69	29.89	94.00	128.29	1.13	42.79	2.25

Pursuant to AQR 12.5, all terms and conditions in Sections I through IV and the Attachments in this permit are federally enforceable unless explicitly denoted otherwise.

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## I. ACRONYMS

**Table I-1: List of Acronyms and Abbreviations**

Acronym	Term
AQR	Clark County Air Quality Regulations
ASTM	American Society for Testing and Materials
ATC	Authority to Construct
ATC/OP	Authority to Construct/Operating Permit
BH	Baghouse
BV	Binvent
CAM	Compliance Assurance Monitoring
CE	Control Efficiency
CF	Control Factor
CFR	United States Code of Federal Regulations
CO	Carbon Monoxide
DAQ	Clark County Department of Air Quality
EF	Emission Factor
EPA	United States Environmental Protection Agency
EU	Emission Unit
HAP	Hazardous Air Pollutant
HP	Horse Power
LP	Landplaster
MMBtu	Millions of British Thermal Units
NO <sub>x</sub>	Nitrogen Oxides
NRS	Nevada Revised Statutes
NSPS	New Source Performance Standards
PM <sub>10</sub>	Particulate Matter less than 10 microns
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
QIP	The Quality Improvement Plan
SC	Screw Conveyor
scf	Standard Cubic Feet
SO <sub>x</sub>	Sulfur Oxides
TSD	Technical Support Document
VOC	Volatile Organic Compound

## II. GENERAL CONDITIONS

### A. General Requirements

1. The Permittee shall comply with all conditions of the Part 70 Operating Permit. Any permit noncompliance may constitute a violation of the Clark County Air Quality Regulations, Nevada law, and the Clean Air Act and is grounds for the following: enforcement action; permit termination; revocation and re-issuance; revision; or denial of a permit renewal application. *[AQR 12.5.2.6(g)(1)]*
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 12.5.2.6(f)]*
3. The Permittee shall pay all permit fees pursuant to AQR Section 18. *[AQR 12.5.2.6(h)]*
4. The permit does not convey any property rights of any sort, or any exclusive privilege. *[AQR 12.5.2.6(g)(4)]*
5. The Permittee agrees to allow inspection of the premises, to which this permit relates, by the Control Officer at any time during the Permittee's hours of operation without prior notice. The Permittee shall not obstruct, hamper or interfere with any such inspection. *[AQR 4.3.3; AQR 4.9; AQR 5.1.1; AQR 12.5.2.8(b)]*
6. The Permittee shall allow the Control Officer, upon presentation of credentials to: *[AQR 4.3 and 12.5.2.8(b)]*
  - a. Have access to and copy any records that must be kept under the conditions of the permit;
  - b. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
  - c. Sample or monitor substances or parameters for the purpose of assuring compliance with the permit or applicable requirements; and
  - d. Document alleged violations using devices such as cameras or video equipment.
7. 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. In addition, the Permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to release of a draft permit. A responsible official shall certify the additional information consistent with the requirements of AQR Section 12.5.2.4. *[AQR 12.5.2.2]*
8. The Permittee who has been issued a permit under Section 12.5 shall post such permit in a location which is clearly visible and accessible to the facility's employees and representatives of the department. *[AQR 12.5.2.6(m)]*

## **B. Modification, Revision, Renewal Requirements**

1. No person shall begin actual construction of a New Part 70 source, or modify or reconstruct an existing Part 70 source that falls within the preconstruction review applicability criteria, without first obtaining an ATC Permit from the Control Officer *[AQR 12.4.1.1(a)]*
2. The permit may be revised, revoked, reopened and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[AQR 12.5.2.6(g)(3)]*
3. A permit, permit revision, or renewal may be approved only if all of the following conditions have been met: *[AQR 12.5.2.10(a)]*
  - a. The Permittee has submitted to the Control Officer a complete application for a permit, permit revision, or permit renewal, except that a complete application need not be received before a Part 70 general permit is issued pursuant to Section 12.5.2.20; and
  - b. The conditions of the permit provide for compliance with all applicable requirements and the requirements of Section 12.5
4. The Permittee shall not build, erect, install or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere reduces or 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. *[AQR 12.5.2.6(i)]*
6. Permit expiration terminates the Permittee's right to operate unless a timely and complete renewal application has been submitted. *[AQR 12.5.2.11(b)]*
7. For purposes of permit renewal, a timely application is a complete application that is submitted at least six (6) months and not greater than eighteen (18) months prior to the date of permit expiration. If a source submits a timely application under this provision, it may continue operating under its current Part 70 OP until final action is taken on its application for a renewed Part 70 OP. *[AQR 12.5.2.1(a)(2)]*

## **C. Reporting/Notifications/Providing Information Requirements**

1. The Permittee shall submit all compliance certifications to EPA and to the Control Officer. *[AQR 12.5.2.8(e)(4)]*
2. Any application form, report, or compliance certification submitted to the Control Officer pursuant to the permit or AQRs shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under AQR 12.5 shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *[AQR 12.5.2.6(l)]*

3. 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 revising, 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 Administrator along with a claim of confidentiality. *[AQR 12.5.2.6(g)(5)]*
4. 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 the Control Officer may require 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 the 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]*
5. The Permittee shall submit annual emissions inventory reports based on the following: *[AQR 18.6.1]*
  - a. The annual emissions inventory must be submitted to Air Quality by March 31 of each calendar year; and
  - b. 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.

#### **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 in order to maintain compliance with the conditions of this permit. *[AQR 12.5.2.6(g)(2)]*
2. Any person who violates any provision of the AQR, 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 Air Quality is guilty of a civil offense and shall pay civil penalty levied by the Air Pollution Control Hearing Board and/or the Hearing Officer of not more than \$10,000. Each day of violation constitutes a separate offense. *[AQR 9.1; NRS 445B.640]*
3. Any person aggrieved by an order issued pursuant to AQR Section 9.1 is entitled to review as provided in Chapter 233B of 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(b)(8)]*
5. The Permittee shall certify compliance with terms and conditions contained in the Part 70 Operating Permit, including emission limitations, standards, work practices, and the means for monitoring such compliance. *[AQR 12.5.2.8(e)]*

6. The Permittee shall submit compliance certifications annually in writing to the Control Officer (4701 W Russell Road, Ste 200, Las Vegas, NV 89118) and the Administrator at USEPA Region IX (Director, Air and Toxics Divisions, 75 Hawthorne St., San Francisco, CA 94105). A compliance certification for each calendar year will be due on January 30th of the following year and shall include the following: *[AQR 12.5.2.8(e)]*
  - a. The identification of each term or condition of the permit that is the basis of the certification;
  - b. The identification of the methods or other means used by the Permittee for determining the compliance status with each term and condition during the certification period. The methods and means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements described in 40 CFR 70.6(a)(3). If necessary, the Permittee shall also identify any other material information that must be included in the certification to comply with Section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information; and
  - c. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the methods or means designated in subsection II.D.6(b). The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify, 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.
7. The Permittee shall report to the Control Officer (4701 West Russell Road, Suite – 200, Las Vegas, NV 89118) any startup, shutdown, malfunction, emergency or deviation which cause emissions of regulated air pollutants in excess of any limits set by regulation or by this permit. The report shall be in two parts as specified below: *[AQR 12.5.2.6(d)(4)(B); AQR 25.6.1]*
  - a. Within twenty-four (24) hours of the time the Permittee learns of the excess emissions, the report shall be communicated by phone (702) 455-5942, fax (702) 383-9994, or email: [airquality@clarkcountynv.gov](mailto:airquality@clarkcountynv.gov); and
  - b. Within seventy-two (72) hours of the notification required by paragraph (a) above, the detailed written report containing the information required by AQR Section 25.6.3 shall be submitted.
8. The Permittee shall report to the Control Officer with the semi-annual monitoring report all deviations from permit conditions that do not result in excess emissions, including those attributable to malfunction, startup, or shutdown. Reports shall identify the probable cause of each deviation and any corrective actions or preventative measures taken. *[AQR 12.5.2.6(d)(4)(B)]*
9. The owner or operator of any source required to obtain a permit under Section 12 shall report to the Control Officer emissions that are in excess of an applicable requirement or emission limit that pose a potential imminent and substantial danger to public health, safety or the environment as soon as possible, but in no case later

than twelve (12) hours after the deviation is discovered, with a written report submitted within two (2) days of the occurrence. [AQR 25.6.2]

**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 Air Quality 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. [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 (4701 West Russell Road, Suite 200, Las Vegas, NV 89118) not less than 45, nor more than 90 days prior to the anticipated date of the performance test, unless otherwise specified in Section III.D. [AQR 12.5.2.8]
4. The Permittee shall submit to EPA for approval any alternative test methods that are not already approved by EPA, to demonstrate compliance with a requirement under 40 CFR Part 60. [40 CFR 60.8(b)]
5. The Permittee shall submit a report describing the results of each performance test to the Control Officer within 60 days from the end of the performance test. [12.5.2.8]

**III. EMISSION UNITS AND APPLICABLE REQUIREMENTS**

**A. Emissions Units and PTE**

1. The stationary source covered by this Part 70 Operating Permit (OP) consists of the emission units and associated appurtenances summarized in Table III-A-1. [AQR 12.5.2.3(c)(2)]

**Table III-A-1: Summary of Emissions Units**

EU	Rating	EU Description	Make	Model No.	Serial No.
<b>Group 3A Truck Unloading Station</b>					
C.16	2.5 miles	Paved Haul Road			
C.17	60 ton	Hoppers #1, 2 (BH01)			
C.18	0.52 acres	Gypsum Rock Storage Pile			
C.19	300 ton/hr	Conveyor System (4 Belts)			
<b>Group 5 Discharge Terminal</b>					
E1	100 tons/hr	Stacker E.1			
E.2	100 tons/hr	Conveyor System (5 Belts)			
E.8.1	300 tons/hr	Silo #1 (BV01)			

EU	Rating	EU Description	Make	Model No.	Serial No.
E.8.2	300 tons/hr	Silo #2 (BV02)			
E.9	300 tons/hr	Conveyor System (2 Belts)			
E.9.2	0.01 ton/hr	Emergency Hopper			
E.9.3	300 ton/hr	Silo #3 (BV03)			
E.11	45 MMBtu/hr	CP Mill (BH02)			
E.12	55 ton/hr	Stucco Cooler (BH02)			
<b>Group 6 Rolling Mills</b>					
F.1	55 ton/hr	Rock Bins #1-5			
F.1.1	1.8 MMBtu/hr	Flash Dryer #1			
F.1.2	1.8 MMBtu/hr	Flash Dryer #2			
F.1.3	1.8 MMBtu/hr	Flash Dryer #3			
F.1.4	1.8 MMBtu/hr	Flash Dryer #4			
F.1.5	1.8 MMBtu/hr	Flash Dryer #5			
F.2	55 ton/hr	Roller Mills #1-5			
F.3	55 ton/hr	Collection Screw Conveyor			
F.4	55 ton/hr	LP Collection Screw Conveyor			
F.6	55 ton/hr	LP Bin (400 tons)			
<b>Group 7 Plaster Production/Kettles</b>					
G.1	55 ton/hr	Bucket Elevator #1			
G.1.1	12 MMBtu/hr	Kettle Calciner #1			
G.1.2	12 MMBtu/hr	Kettle Calciner #2			
G.1.3	12 MMBtu/hr	Kettle Calciner #3			
G.1.4	12 MMBtu/hr	Kettle Calciner #4			
G.1.5	12 MMBtu/hr	Kettle Calciner #5			
G.1.6	12 MMBtu/hr	Kettle Calciner #6			
G.1.7	12 MMBtu/hr	Kettle Calciner #7			
G.2	55 ton/hr	LP Distribution Screw Conveyor			
G.3	55 ton/hr	LP Bins #1-7			
G.9	87.5 ton/hr	Hot Pits #1-7			
G.10	87.5 ton/hr	Stucco Collection Screw Conveyor			
G.11	87.5 ton/hr	Bucket Elevator #2			
G.12	87.5 ton/hr	Stucco Distribution Screw Conveyor			
G.14	50 ton/hr	Truck Loading			
<b>Group 8 Plaster Operations</b>					
H.1	70 ton/hr	Hardwall Screw Conveyor			
H.2.1	50 ton/hr	Hardwall Bin System (Bins #6HR, #5HR)			
H.3.1		Screw Conveyor H.3.1			
H.4	20 ton/hr	Hopper			
H.6	20 ton/hr	Ball Mill			
H.7	20 ton/hr	Bucket Elevator #3			
H.8		Screw Conveyor			
H.9	20 ton/hr	Bin #3HF			
H2.2	20 ton/hr	Casting Bin System (Bins #1CR - 4CR)			

EU	Rating	EU Description	Make	Model No.	Serial No.
H.3.2		Screw Conveyor H.3.2			
H.3.3		Screw Conveyor H.3.3			
H.10.4	10 ton/hr	Entoleter			
H.10.5		Screw Conveyor H.10.7			
H.10.6	10 ton/hr	Bucket Elevator #4			
H.10.7		Casting Screw Conveyor			
H.13		Screw Conveyor H.13			
H.13.1		Air Classifier			
H.14.2		Screw Conveyor H.14.2			
H.15	20 ton/hr	Bucket Elevator #5			
H.16		Finish Bin Feed Screw Conveyor System (2 Screws)			
H.17		Finish Bin System (6 bins)			
H.18		Mixer Feed Screw Conveyor System (5 Screw Conveyor)			
H.19.1		Mixer #3			
H.19.2		Bucket Elevator #6			
H.20.1		Sacker			
H.19.3		Mixer #5			
H.19.4		Bucket Elevator #7			
H.20.2		Sacker			
H.19.5		Bucket Elevator #8			
H.19.6		Mixer #6			
H.20.4		Supersacker			
H.21		Bulk Loading Bin			
H.20.3		Truck Loading			
H.22		Cement Bin			
<b>Group 9 Stucco Storage Bins</b>					
I.1	55 ton/hr	Stucco Screw Conveyor System (2 Screws)			
I.2	55 ton/hr	Cooling Bins System (2 bins)			
I.3	55 ton/hr	Stucco Screw Conveyor 3			
I.4	55 ton/hr	Bucket Elevator #9			
I.6	55 ton/hr	Stucco Storage Bin System (4 bins)			
I.7	55 ton/hr	Stucco Screw Conveyor 4			
I.8	55 ton/hr	Surge Bin			
I.9	55 ton/hr	Stucco Screw Conveyor 5			
I.10	55 ton/hr	Metering Screw Conveyor			
I.11	55 ton/hr	Recirculation Elevator # 10			
I.13	55 ton/hr	Mixing Screw Conveyor			
<b>Group 11 Accelerator System</b>					
K.1	0.3 ton/hr	LP Bin w/ Additive Bin			
K.2	0.3 ton/hr	Screw Conveyor K.2			
K.3	0.3 ton/hr	Bucket Elevator #11			
K.4	0.3 ton/hr	Screw Conveyor System (2 screws)			

EU	Rating	EU Description	Make	Model No.	Serial No.
K.6	0.3 ton/hr	Ball Mill System (8 mills)			
K.7	0.3 ton/hr	Screw Conveyor K.7			
K.8	0.3 ton/hr	Bucket Elevator #12			
K.9	0.3 ton/hr	Screw Conveyor System (2 screws)			
K.12	0.3 ton/hr	Accelerator Bin			
K.13	0.3 ton/hr	Mixing Screw Conveyor			
<b>Group 10 Boardplant</b>					
J.1	50 ton/hr	Pin Mixer			
J.1.1	50 ton/hr	Edge Mixer			
J.2.1	1.2 MMBtu/hr	Paper Heater #1			
J.2.2	1.2 MMBtu/hr	Paper Heater #2			
J.3	141 MMBtu/hr	AKI Board Dryer			
J.3.1		Wallboard Raw Materials			
J.4		Radial Center Saw			
J.5		End Saws (4 saws)			
J.6		Slutter Machine			
<b>Group 12 Wallboard Recycling System</b>					
L.1	8 acres	Recycle Stockpile			
L.2	100 ton/hr	Feeder			
L.3	100 ton/hr	Chopper			
L.3.2	400 hp	Diesel Powered Genset, DOM: June, 2006	CAT	3406E	BKN01836
L.4		Conveyor L.4			
L.5	100 ton/hr	Pulverizer			
L.6		Conveyor L.6			
L.7	100 ton/hr	Screen			
L.8		Conveyor System (3 belts)			
L.10	0.05 acres	Finished Product Stockpile			
L.13	0.46 miles	Unpaved Haul Roads			
L.17	10 ton/hr	Recycle Feeder			
L.20	10 ton/hr	Screw Conveyor			
L.18	10 ton/hr	Bucket Elevator #13			
<b>Group 14 Alternate Wallboard Recycling System</b>					
N.1	50 tons/hr	Grinder	Komptech	Crambo 3400	TBD
N.2		Conveyor N.2			
N.3	50 tons/hr	Screen	Komptech	Nemus 2700	28054
N.4		Conveyor System (4 Belts)			
N.5	325 hp	Diesel Engine, DOM: 2014	CAT	C9	REH03390
N.6	95 hp	Diesel Engine, DOM: 2016	CAT/ Perkins	C4.4/1104 D-44T	U262427A
N.7	65 hp	Diesel Engine, DOM: 2004	Cummins	B3.3	68027481
<b>Miscellaneous</b>					
P.01	144 hp	Diesel Fire Pump, DOM: Sept. 2006	John Deere	JU6H-UFD0	PE6068T6 43463
T.1	1,000 gal	Gasoline Storage Tank (aboveground)			

EU	Rating	EU Description	Make	Model No.	Serial No.
<b>Insignificant Emissions Units/Activities</b>					
		Diesel Dispensing Operation – 36,000 gal/year			
	1,500 gal	Board Plant Diesel Storage Tank – 13,500 gal/year			

**B. Emission Limitations and Standards**

**1. Emission Limitations**

- a. Except as specified below, the Permittee shall not discharge any air contaminant into the atmosphere, from any emission unit, in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes. *[AQR 26.1.1]*
- b. The Permittee shall not allow the baghouses and bin vents for the Truck Unloading Station (BH01), the Rock Silos (BV01 and BV02), the Plaster Operations (BH17 and BH21), the Stucco Storage Bins (BH23), and the Accelerator System (BH22) to discharge into the atmosphere emissions from their exhaust stack which contains particulate matter in excess of 0.05g/dscm (0.022 gr/dscf). *[AQR 12.5.2.3 and 40 CFR 60.672]*
- c. The Permittee shall not allow the baghouse for the CP Mill (BH02) to discharge into the atmosphere emissions from its exhaust stack which are in excess of the following limits:
  - i. Ten (10) percent opacity, and total particulate matter (PM) of 0.092 g/dscm (0.040 gr/dscf); *[40 CFR 60.732]*
  - ii. Particulate matter ten microns (PM<sub>10</sub>) of 0.00873 gr/dscf, and 1.95 lb/hr *[NSR ATC/OP 4, Modification 4, Revision 0, (08/08/05)]*
- d. The Permittee shall not allow visible emissions from belt conveyor transfer points in excess of 7 percent opacity (EUs: C.24, C.25, E.1.2, E.1.3, E.2, E.6, E.7, E.9, L.4, L.5, L.7, L.7.1, and L.8). *[40 CFR 60.672]*
- e. The Permittee shall not allow visible emissions from crushers or grinding mills in excess of 15 percent opacity (EUs: L.3 and L.6). *[40 CFR 60.672]*
- f. The Permittee shall ensure that the continuous duty diesel engine (EU: L.3.2) shall comply with the emission standards set forth in Table 1 of 40 CFR 60, Subpart IIII for the same model year and maximum engine power. The emission standards are provided in Table III-B-1:

**Table III-B-1: Emission standards for stationary pre-2007 model year engines with a displacement of <10 liters per cylinder (g/hp-hr)**

Max. Engine Power	NMHC + NO <sub>x</sub>	HC	NO <sub>x</sub>	CO	PM
300 ≤ HP < 600	N/A	1.0	6.9	8.5	0.40

- g. The Permittee shall ensure that the continuous duty diesel engines (EUs: N.5 and N.6) comply with the emission standards set forth in Table 1 of 40 CFR 89.112 for the same model year and maximum engine power. The emission standards are provided in Table IV-B-2:

**Table III-B-2: Emission standards for stationary 2007+ model year engines (<2,237 kW) with a displacement of <10 liters per cylinder (g/kW-hr)**

Max. Engine Power (kW)	NMHC + NO <sub>x</sub>	HC	NO <sub>x</sub>	CO	PM
37 < kW < 75	4.7	N/A	N/A	5.0	0.40
225 < kW < 450	4.0	N/A	N/A	3.5	0.20

- h. The Permittee shall limit emissions from the diesel fire pump (EU: P.01) to the emission standards set forth in Table 4 of 40 CFR 60, Subpart IIII for the same model year and maximum engine power. The emission standards are provided in Table IV-B-3:

**Table III-B-3: Emissions Standards for Stationary Fire Pump Engines (g/hp-hr)**

Max. Engine Power	Model Year	NMHC + NO <sub>x</sub>	CO	PM
100 ≤ HP < 175	2009 and earlier	7.8	3.7	0.60

## 2. Production/Operational Limits

### Mineral Processing and Wallboard Manufacturing/Recycling

- a. The Permittee shall limit the processing of usable gypsum rock and recycled reject wallboard to a combined total of 800,000 tons per any consecutive 12-month period. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- b. The Permittee shall limit the processing of reject and/or recycled wallboard to a combined throughput of 120,000 tons per any consecutive 12-month period (Recycling System Groups 12 and 14). *[AQR 12.4.3.2(b) ATC Application (04/15/2016)]*
- c. The Permittee shall limit the processing of gypsum rock at the truck unloading station to 800,000 tons per any consecutive 12-month period. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*

### Gasoline Dispensing

- d. The Permittee shall limit gasoline fuel dispensing to 16,000 gallons per any consecutive 12-month period (EU: T.1). *[NSR ATC 4, Modification 6, Revision 0, (05/29/08)]*

### Diesel Genset / Emergency Fire Pump

- e. The Permittee shall limit the operation of each diesel engine to 2,400 hours per any consecutive 12-month period (EUs: L.3.2, N.5, N.6, and N.7). *[Title V OP (3/18/2015) and ATC Application (04/15/2016)]*
- f. The Permittee shall limit the operation of the emergency fire pump (EU: P.01) for testing and maintenance purposes to 100 hours per year. The Permittee may operate the emergency fire pump up to 50 hours per year for non-emergency situations, but those hours count towards the 100 hours provided for testing and maintenance. *[40 CFR §60.4211(e)]*

### 3. Control Requirements

#### General

- a. The Permittee shall not cause, suffer or allow the discharge from any source whatsoever such quantities of air contaminants or other material which cause a nuisance, including excessive odors. *[AQR 40.1 and AQR 43]*

#### Mineral Processing and Wallboard Manufacturing/Recycling

- b. The Permittee shall control fugitive dust emissions from conveyors, storage piles, transfer points, drop points, stacker 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. The Permittee shall utilize the water spray system at all times during the processing of materials. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- c. The Permittee shall maintain the water spray system in good operating condition, as verified by a daily inspection when operating the equipment. The Permittee shall investigate and correct any problems with the water spray system before resuming operations. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- d. The Permittee shall control fugitive dust emissions from conveyors, the useable gypsum rock storage pile (EU: C.18) and the storage piles (EUs: L.1 and L.10), transfer points, and nonmetallic mineral processing equipment not connected to baghouse controls by maintaining at least 0.5 percent moisture by weight in materials less than 1/4 inch in diameter. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- e. The Control Officer any time may require additional watering systems at pertinent locations if an inspection indicates that the opacity limit(s) is being exceeded. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- f. The Permittee shall operate baghouses and bin vents on all gypsum handling equipment, CP Mill, flash dryers, and kettle calciners as indicated in Table III-B-4 and at all times the processing equipment is operating. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- g. The Permittee shall operate the baghouses and bin vents on all applicable 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. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- h. The Permittee shall maintain each baghouse and bin vent in good working order so they are operated consistent with manufacturer specifications and the control standards of this permit. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07) and AQR 12.5.2.6(a)]*
- i. The Permittee shall operate each baghouse so the pressure drops across their filters are maintained within the limits specified in Table III-B-3. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*

**Table III-B-4: Summary of PM<sub>10</sub> Add-On Control Devices**

Control Device		Description	ΔP Range (in. H <sub>2</sub> O)	Corresponding Emission Unit
Number	Type			
BH01	Bag House	Rock Unloading	0.5 – 8.0	C.17, C.19
BV01	Bin Vent	Rock Silo #1	N/A	E.8.1
BV02	Bin Vent	Rock Silo #2	N/A	E.8.2
BV03	Bin Vent	CP Mill Feed Silo	N/A	E.9.3
BH02	Bag House	CP Mill	0.5 – 8.0	E.11, E.12
BH03	Bag House	Stucco Cooler /Transfer	0.5 – 8.0	I.1
BH04	Bag House	Roller Mill #1	0.5 – 8.0	F.1 through F.4 J.1, J.1.1
BH05	Bag House	Roller Mill #2	0.5 – 8.0	
BH06	Bag House	Roller Mill #3	0.5 – 8.0	
BH07	Bag House	Roller Mill #4	0.5 – 8.0	
BH08	Bag House	Roller Mill #5	0.5 – 8.0	
BH09	Bag House	LP Bins	0.5 – 8.0	F.6,G.1, G.2, G.3
BH10	Bag House	Kettle #1	0.5 – 8.0	G.1.1, G.1.2, G.1.3, G.1.4, G.1.5, G.1.6, G.1.7
BH11	Bag House	Kettle #2	0.5 – 8.0	
BH12	Bag House	Kettle #3	0.5 – 8.0	
BH13	Bag House	Kettle #4	0.5 – 8.0	
BH14	Bag House	Kettle #5	0.5 – 8.0	
BH15	Bag House	Kettle #6	0.5 – 8.0	
BH16	Bag House	Kettle #7	0.5 – 8.0	
BH17*	Bag House	Finish Bin	1.0 – 9.0	G.9 through G.14 H.1 through H.18
BV04	Bin Vent	Cement Bin	N/A	H.22
BH18	Bag House	Mixer #3	0.5 – 8.0	H.19.1, H.19.2
BH19	Bag House	Mixer #5	0.5 – 8.0	H.19.3, H.19.4, H.20.2
BH20	Bag House	Mixer #6	0.5 – 8.0	H.19.6, H.20.4
BH21	Bag House	Bulk Plaster Loading	0.2 – 8.0	H.21, H.20.3
BV05	Bin Vent	Stucco Cooling Bins	N/A	I.2
BV06	Bin Vent	LP Bin (Accelerator)	N/A	K.1, K12
BH22	Bag House	Accelerator Ball Mills	0.5 – 8.0	K.2 through K.9 K.13
BH23	Bag House	Board Plant Stucco Bins	0.5 – 8.0	I.3 through I.13
BH24*	Bag House	End Trim	0.2 – 5.0	J.4 through J.6

\* CAM Applicable

**Fuel Burning Equipment / Diesel Engines**

- j. The Permittee shall combust only natural gas in CP Mill (EU: E.11), flash dryers (EUs: F1.1, F.1.2, F.1.3, F.1.4 and F.1.4), paper heaters (EUs: J.2.1, J.2.2 and J.3), and kettle calciners (EUs: G1.1 through G.1.7). *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*

- k. The Permittee shall equip diesel engines (EUs: L.3.2, N.5, N.6, N.7, and P.01) with turbochargers and aftercoolers and shall operate and maintain the engines in accordance with the manufacturer's specification. *[Title V OP (3/18/2015) and ATC Application (04/15/2016)]*
- l. The Permittee shall maintain each generator (EU: N.7) as follows, unless the manufacturer's specifications are more stringent: *[40 CFR 63, Subpart ZZZZ]*
  - a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first;
  - b. Inspect air cleaners every 1,000 hours of operation or annually, whichever comes first; and
  - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
  - d. the Permittee may utilize an oil analysis program as described in Subpart 63.6625(i) in order to extend the specified oil change requirement and can petition the Control Officer pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

#### Gasoline Dispensing

- m. 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. *[40 CFR §63.1114]*
- n. 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 §63.1116]*
  - 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; and
  - v. The Permittee shall have records documenting gasoline throughput within 24 hours of a request of the Control Officer.

#### Fugitive Emissions

- o. 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. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*

- p. The Permittee shall not cause or allow fugitive dust to become airborne without taking reasonable precautions. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- q. 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. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- r. The Permittee shall sweep and/or rinse paved roads accessing or located on the site as necessary to remove all observable deposits and not exhibit opacity greater than 20 percent as determined by observations based on EPA Method 9, or an instantaneous opacity greater than 50 percent.
- s. The Permittee shall not exceed a silt loading of 0.33 ounces per square foot on paved roads accessing or located on the site regardless of the average number of vehicles per day. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- t. 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. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- u. 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. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*
- v. The Permittee shall ensure that all loaded trucks, regardless of ownership, shall be properly covered to prevent visible emissions. *[NSR ATC/OP 4, Modification 5, Revision 0, (07/23/07)]*

### **C. Monitoring**

- 1. The Permittee shall conduct a daily visual emissions check for visible emissions from the facility while it is in operation. *[AQR 12.5.2.6(d)]*
- 2. If the Permittee, 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 12.5.2.6(d)]*
- 3. If the Permittee sees a plume that, on an instantaneous basis, appears to exceed the opacity standard, the Permittee shall: *[AQR 12.5.2.6(d)]*

- a. Take immediate action to correct causes of fugitive/stack emissions that appear to exceed allowable opacity limits; or
  - b. If practical, have a certified VE observer take an EPA method 9 observation of the plume and record the results, and take immediate action to correct causes of fugitive emissions in excess of allowable opacity limits in accordance with 40 CFR 60 appendix a: reference method 9.
4. Visible emissions checks do not require a certified VE observer, except where visible emissions appear to exceed the allowable opacity limit and exceed 30 seconds in duration, and an EPA Method 9 observation is made to establish it does not exceed the standard. *[AQR 12.5.2.6(d)]*

#### Mineral Processing and Wallboard Manufacturing/Recycling

5. The Permittee shall monitor the processing of usable gypsum rock in tonnage and calculate, on a monthly basis, the throughput as a consecutive 12-months total. *[AQR 12.5.2.6(d)]*
6. The Permittee shall monitor the processing of reject and/or recycled wallboard in tonnage and calculate, on a monthly basis, the throughput as a consecutive 12-months total. *[AQR 12.5.2.6(d)]*
7. The Permittee shall demonstrate compliance with the minimum moisture content specified in this permit for materials less than ¼ inch in diameter by conducting moisture testing as follows: *[AQR 12.5.2.6(d)]*
  - a. Moisture testing shall be conducted at least once each week of operation on material from each applicable area.
  - b. Moisture testing shall be conducted on materials less than 0.25 inches in diameter. Samples for testing shall be taken to be representative from the following areas:
    - i. Group 5 Discharge Terminal at the Fold Belt/Crossover Belt area (EU: E.2);
    - ii. Group 12 Wallboard Recycling System at the Feeder area (EUs: L.2 or L.3); and
    - iii. Group 14 Wallboard Recycling System at the Grinder area (EUs: N.1 or N.2).
  - c. Moisture testing shall be conducted in accordance with ASTM Standard C 566-97: Standard Test Method for Total Moisture Content of Aggregate by Drying.
8. 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, or equivalent device, per manufacturer's specifications. *[AQR 12.5.2.6(d)]*
9. 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 12.5.2.6(d)]

Gasoline Dispensing

10. The Permittee shall monitor the throughput of gasoline (EU: T.1) in gallons and calculate, on a monthly basis, the throughput as a consecutive 12-month total. [AQR 12.5.2.6(d)]
11. The Permittee shall monitor the fuel storage and dispensing system to determine if components of the system are in compliance with the control requirements of this permit. The monitoring shall consist of, but not be limited to: [AQR 12.5.2.6(d)]
  - a. The Permittee shall inspect daily for gasoline spills. The Permittee shall record the times and dates the source became aware of a spill and when the spill was cleaned up.
  - b. The Permittee shall inspect covers on gasoline containers and fill-pipes after each respective delivery. The Permittee shall record the date of fuel deliveries and corresponding inspections.
  - c. The Permittee shall record the date and approximate volume of gasoline sent to open waste collection systems that collect recyclable gasoline.

Diesel Engines / Emergency Fire Pump

12. The Permittee shall operate the diesel engines and fire pump (EUs: L.3.2, N.5, N.6, N.7, and P01) with non-resettable hour meters. [AQR 12.5.2.6(d)]
13. The Permittee shall monitor the hours of operation of each diesel engine (EUs: L.3.2, N.5, N.6, and N.7) and calculate, on a monthly basis, their duration of operation as a consecutive 12-month total. [AQR 12.5.2.6(d)]
14. The Permittee shall monitor the hours of operation of the fire pump (EU: P.01) for testing and maintenance, and separately for emergencies. The nature of the emergency leading to emergency operation shall be documented. [AQR 12.5.2.6(d)]

Compliance Assurance Monitoring:

15. The Permittee shall monitor the baghouses listed in Table III-C-1 in accordance with 40 CFR, Part 64 and the following conditions: [40 CFR, Part 64 and AQR 12.5.2.6(d)]

**Table III-C-1: Emission Units Subject to CAM**

EU ID	Description	Control Device	PM <sub>10</sub> Pre-Control Emissions
H.6, H.10.4	Plaster Ball Mill	BH17	161.6 tons/year
J.4, J.5, J.6	End Trim Saw, Center Saws, Slutter Machine	BH24	693.9 tons/year

- a. Daily measurements of pressure differential between inlet and outlet of the baghouse ( $\Delta p$ ) for PM<sub>10</sub> 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 III-C-2. [AQR 12.5.2.6(d)]
- b. The Permittee shall monitor the pressure differential in baghouses subject to CAM in accordance with the monitoring requirements listed in Table III-C-2.

- c. The Permittee shall monitor opacity of the exhaust from baghouses listed in Table III-C-1 on a daily basis.
- d. The Permittee shall monitor opacity from baghouses subject to CAM in accordance with the monitoring requirements listed in Table III-C-2:

**Table III-C-2: Monitoring Approach**

CAM Element	Indicator 1	Indicator 2
Indicator	Pressure differential ( $\Delta p$ )	Opacity
Measurement Approach	The $\Delta p$ shall be measured across the baghouse with a Magnehelic gauge, or equivalent; the time of reading and measured value will be recorded.	Visual checks shall be made on the baghouse stack exhaust. A Method 9 opacity reading will be performed if visible emissions are observed.
Indicator Range	<p>The indicator range for <math>\Delta p</math> is 1-9 inches of water for EUs: H.6 and H.10.4. An excursion is defined as any measured <math>\Delta p</math> outside the range of 1-9 inches of water.</p> <p>The indicator range for <math>\Delta p</math> is 0.2-5 inches of water for EUs: J.4, J.5 and J.6. An excursion is defined as any measured <math>\Delta p</math> outside the range of 0.2 and 5 inches of water.</p> <p>The Quality Improvement Plan (QIP) threshold is three (3) excursions in each semi-annual reporting period.</p>	For opacity, the indicator is no visible emissions. An excursion is defined as any visible emission observation. Excursions trigger an investigation, corrective actions and a reporting requirement. The proposed QIP threshold is three (3) excursions in each semi-annual reporting period.
Performance Criteria Data Representativeness	Measurements shall be made at the emission point – baghouse	Measurements shall be made at the emission point - baghouse
Verification of Operational Status	The $\Delta p$ gauge shall be installed, calibrated and operated per manufacturer’s recommendations.	Not applicable.
QA/QC Practices and Criteria	The Magnehelic gauge, or equivalent, shall be calibrated no less than annually.	The visible opacity observations shall be made by a certified observer.
Monitoring Frequency	Daily $\Delta p$ measures shall be made.	Daily visual checks shall be made.
Data Collection Procedures	Differential pressure ( $\Delta p$ ) measurements shall be recorded upon observation.	Visual checks shall comprise two (2) observations, about 15 seconds apart. Visual checks shall be recorded upon observation.
Averaging Period	Not applicable.	Not applicable.

**D. Testing**

Mineral Processing and Wallboard Manufacturing/Recycling

1. The Permittee shall demonstrate compliance with the opacity standards and particulate emission standards expressed in g/dscm or gr/dscf, as listed in Table III-D-1, by conducting performance test on emission units listed in Table III-D-1 in accordance with 40 CFR 60 Reference Method 9 (Standards for Opacity) and Reference Methods 5 or 17. [AQR 12.5.2.6(d)]

2. Regardless of the date of issuance of this permit, the Permittee shall conduct performance testing using the test methods and frequency delineated in Table III-D-1: [AQR 12.5.2.6(d)]

**Table III-D-1: Performance Testing Standards and Frequency for PM Emissions**

EU	Description	NSPS/AQR Applicability	Pollutant	Compliance Standard	Performance Test Method	Subsequent Testing Frequency
C.17, C.19	Baghouse: BH01 Gypsum Handling, Rock Unloading Hoppers #1 and #2, Rock Unloading Hopper Discharge Belts #1 and #2	40 CFR 60 Subpart OOO	PM	0.05g/dscm (0.022gr/dscf)	Method 5 or Method 17	Every 5 years
E.11, E.12	Baghouse: BH02 CP Mill	40 CFR 60 Subpart UUU AQR Section 12	PM PM <sub>10</sub>	0.092g/dscm (0.040 gr/dscf) 0.00873 gr/dscf	Method 5 or Method 17 Method 201 or Method 202	Every 5 years
H.2.2, H.3.1 – H.3.3, H.4 – H.9, H.10.4 – H.10.7, H.13, H.13.1, H.14.2, H.15 – H.18	Baghouse: BH17 Finish Bins	40 CFR 60 Subpart OOO	PM	0.05g/dscm (0.022gr/dscf)	Method 5 or Method 17	Every 5 years
H.19.5, H.20.1, H.20.3, H.21	Baghouse: BH21 Bulk Plaster Loading	40 CFR 60 Subpart OOO	PM	0.05g/dscm (0.022gr/dscf)	Method 5 or Method 17	Every 5 years
I.2 - I.13	Baghouse: BH23 Board Plant Stucco Bins	40 CFR 60 Subpart OOO	PM	0.05g/dscm (0.022gr/dscf)	Method 5 or Method 17	Every 5 years
K.2 – K.9, K.13	Baghouse: BH22 Accelerator Ball Mill	40 CFR 60 Subpart OOO	PM	0.05g/dscm (0.022gr/dscf)	Method 5 or Method 17	Every 5 years

### E. Record Keeping

1. The Permittee shall maintain records on site that require semi-annual reporting and include, at minimum: [AQR 12.5.2.6(d)]

#### Process Operations

- a. Each monthly consecutive 12-month total processing of usable gypsum rock;
- b. Each monthly consecutive 12-month total processing of gypsum rock at the truck unloading system;
- c. Each monthly consecutive 12-month total processing of reject/recycled gypsum wallboard;

#### Diesel Powered Generators

- d. Each monthly consecutive 12-month total hours of operation of the continuous duty diesel engines (EUs: L.3.2, N.5, N.6, and N.7);

- e. Date and duration of operation of the diesel powered fire pump (EU P.01) for testing, maintenance, and non-emergency use;
- f. Date and duration of operation of the diesel powered fire pump (EU P.01) for emergency use, including documentation justifying use during the emergency;

#### Fugitive Emissions

- g. Each monthly consecutive 12-month total throughput of the gasoline storage tank; and
  - h. Length of the on-site haul roads.
2. The Permittee shall maintain records on site that include, at minimum: [AQR 12.5.2.6(d)]
- a. Logs of oil and filter changes, hoses and belts inspections, as applicable (EU: N.7);
  - b. Log of control device inspections, maintenance, and repair;
  - c. Log of daily pressure drop across each baghouse cell;
  - d. Results of daily visible emission observations of the operations;
  - e. Results of daily visual observations of baghouses;
  - f. Results of weekly moisture sampling;
  - g. Log of dust control measures applied to the paved haul roads, unpaved haul roads, and storage piles.
  - h. Specifications sheets for emission units subject to manufacturer recommendations;
  - i. MSDS records of all VOC-containing materials used in the manufacture of wallboard; and
  - j. Results of performance testing.
3. 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 12.5.2.6(d)]
4. All records and logs, or a copy thereof, shall be kept on-site for a minimum of five (5) years from the date the measurement or data was entered and shall be made available to DAQ upon request. [AQR 12.5.2.6(d)]
5. Records and data required by this OP 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 12.5.2.6(d)]
6. 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 12.5.2.6(d)]

7. The Permittee shall have a standard operating procedures (SOP) manual for baghouses and bin vents. The procedures specified in the manual for maintenance shall, at a minimum, include a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance. A copy of the maintenance schedule shall be kept on site. *[AQR 12.5.2.6(d)]*
8. 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)]*

## **F. Reporting**

1. All report submissions shall be addressed to the attention of the Control Officer. *[AQR 14.3, AQR 21.4, and AQR 22.4]*
2. All reports shall contain the following: *[AQR 12.5.2.6(d)]*
  - a. a certification statement on the first page, i.e., "I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this document are true, accurate and complete." (A sample form is available from DAQ); and
  - b. a certification signature from a responsible official of the company and the date certification.
3. The Permittee shall submit semi-annual monitoring reports to Air Quality. *[AQR 12.5.2.6(d)]*
4. The following requirements apply to semi-annual reports: *[AQR 12.5.2.6(d)(4)(A)]*
  - a. The report shall include records specified in Section III-E-1 of this permit;
  - b. The reports shall cover the semi-annual reporting period from January 1 through June 30 or the semi-annual reporting period from July 1 through December 31.
  - c. The report shall be received by the Control Officer within 30 calendar days after the semi-annual calendar period.
  - d. The report shall include semi-annual summaries of any permit deviations, their probable cause, and corrective or preventative actions taken.
5. The Control Officer reserves the right to require additional reports and reporting to verify compliance with permit conditions, permit requirements, and requirements of applicable federal regulations. *[AQR 4.4]*
6. Regardless of the date of issuance of this OP, the Permittee shall comply with the schedule for report submissions outlined in Table III-F-1.

**Table III-F-1: Summary of Required Submission Dates for Various Reports**

Required Report	Applicable Period	Due Date <sup>1</sup>
Semi-annual Report for 1st Six-Month Period	January, February, March, April, May, June	July 30 each year
Semi-annual Report for 2 <sup>nd</sup> Six-Month Period, Any additional annual records required.	July, August, September, October, November, December	January 30 each year
Annual Compliance Certification Report	Calendar Year	January 30 each year
Annual Emission Inventory Report	Calendar Year	March 31 each year
Notification of Malfunctions, Startup, Shutdowns or Deviations with Excess Emissions	As Required	Within 24 hours the Permittee learns of the event
Report of Malfunctions, Startup, Shutdowns or Deviations with Excess Emissions	As Required	Within 72 hours of the notification
Deviation Report without Excess Emissions	As Required	Along with semi-annual reports
Performance Testing	As Required	Within 60 days from the end of the test.

<sup>1</sup> 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.

### III. 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]*

## ATTACHMENTS

### 1. APPLICABLE REGULATIONS

#### **REQUIREMENTS SPECIFICALLY IDENTIFIED AS APPLICABLE:**

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

Citation	Title
AQR Section 0	Definitions
AQR Section 4	Control Officer
AQR Section 12.2	Permit Requirements For Major Sources in Attainment Areas
AQR Section 12.3	Permit Requirements For Major Sources in Nonattainment Areas
AQR Section 12.4	Authority to Construct Application and Permit Requirements for Part 70 Sources
AQR Section 12.5	Part 70 Operating Permit Requirements
AQR Section 13	National Emission Standards for Hazardous Pollutants
AQR Section 14.1.1 Subpart A	New Source Performance Standards (NSPS) General Provisions
AQR Section 14.1.94 Subpart OOO	New Source Performance Standards – Standards of Performance for Nonmetallic Mineral Processing Plants
AQR Section 25	Affirmative Defense for Excess Emissions due to Malfunctions, Startup, and Shutdown
AQR Section 26	Emissions of Visible Air Contaminants
AQR Section 40	Prohibition of Nuisance Revision 0s
AQR Section 41	Fugitive Dust
AQR Section 42	Open Burning
AQR Section 43	Odors in the Ambient Air
AQR Section 70	Emergency Procedures
AQR Section 80	Circumvention

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 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

Citation	Title
40 CFR Part 64	Compliance Assurance Monitoring
40 CFR Part 70	Federally Mandated Operating Permits
40 CFR Part 82	Protection of Stratospheric Ozone

## 2. EMISSION UNITS CONTROLLED BY BAGHOUSES

### List of Baghouses with Controlled Emission Units

EU	Controlled Process	Baghouse Description	Air Flow (scfm)	Baghouse ID
C.17, C.19-23	Rock Unloading	Camcorp/14BH10x210; S/N: N/A	13,000	BH01
E.8, L.18	Rock Silo #1	Bin Vent; CP Environmental/ 58BF025IIG; S/N: 3376-1	500	BV01
E.8, L.18	Rock Silo #2	Bin Vent; CP Environmental/ 58BF025IIG; S/N: 3376-2	500	BV02
E.10	CP Mill Feed Silo	Bin Vent; CP Environmental/ 58BF025IIG; S/N: 3326	500	BV03
E.11, E.12	CP Mill	GMD/ BV705-10-6WI; S/N: 94SP70510WWI03	24,000	BH02
I.1	Stucco Cooler /Transfer	GMD/ BV690-10-6WI; S/N: 94SP69010WWI08	40,000	BH03
F.1, F.2	Roller Mill #1	Micro-D-Pulsaire/80F1; S/N: 71-H-1450	5,000	BH04
F.1, F.2	Roller Mill #2	Micro-D-Pulsaire/80F1; S/N: 71-H-1451	5,000	BH05
F.1, F.2	Roller Mill #3	Micro-D-Pulsaire/80F1; S/N: 71-H-1452	5,000	BH06
F.1, F.2	Roller Mill #4	Micro-D-Pulsaire/80F1; S/N: 71-H-1454	5,000	BH07
F.1, F.2	Roller Mill #5	Micro-D-Pulsaire/80F1; S/N: 71-H-1453	5,000	BH08
F.5.1, F.5.2, F.6.1, F.6.3, G.1 - 4	LP Bins/Cooling Bin Elevator	Micro-D-Pulsaire/unknown; S/N: 71-H-1943	5,000	BH09
G.5, G.7, G.9	Kettle #1	Micro-D-Pulsaire/1F2; S/N: 71-H-1465	7,000	BH10
G.5, G.7, G.9	Kettle #2	Micro-D-Pulsaire/1F2; S/N: 71-H-1464	7,000	BH11
G.5, G.7, G.9	Kettle #3	Micro-D-Pulsaire/1F2; S/N: 71-H-1462	7,000	BH12
G.5, G.7, G.9	Kettle #4	Micro-D-Pulsaire/1F2; S/N: 71-H-1461	7,000	BH13
G.5, G.7, G.9	Kettle #5	Micro-D-Pulsaire/1F2; S/N: 3474-6	7,000	BH14
G.5, G.7, G.9	Kettle #6	Micro-D-Pulsaire/1F2; S/N: 3474-5	7,000	BH15
G.5, G.7, G.9	Kettle #7	Micro-D-Pulsaire/1F2; S/N: 3474-3	7,000	BH16
G.11-16, H.1, H.2, H.3, H.4, H.5, H.6, H.7, H.8, H.9, H.10, H.10.1, H.10.2, H.10.3, H.10.4, H.10.5, H.10.6, H.10.7, H.11, H.12, H.13.1, H.14.1, H.14.2, H.15, H.16, H.17, H.18, I.1, I.3-4	Finish Bin	Micro-D-Pulsaire/1F2; S/N: 71-H-1944	6,700	BH17
H.22	Cement	Bin Vent; CP Environmental/ 58BF025IIG;	500	BV04

EU	Controlled Process	Baghouse Description	Air Flow (scfm)	Baghouse ID
	Unloading	S/N: 3419		
H.24, H.23, H.20.1	Mixer #3	Micro-D-Pulsaire/N/A; S/N: N/A	1,000	BH18
H.19.3, H.20.2	Mixer #5	Micro-D-Pulsaire/N/A; S/N: N/A	1,000	BH19
H.19.2, H20.4	Mixer #6	FlexKleen/unknown: S/N: W34460	500	BH20
H.21, H.20.3	Bulk Plaster Loading	FlexKleen/unknown: N/A	840	BH21
I.2	Stucco Cooling Bins	Micro-D-Pulsaire/100.S.8.20; S/N: 71-H-1945	300	BV05
K.1	LP Bin (Accelerator)	Bin Vent; Pneu-Con/N/A; S/N: N/A	300	BV06
K.2 – K.11, K.15	Accelerator Ball Mills	CP Environmental/ 58BF025C; S/N: 3663-3	1,000	BH22
I.5-I.13, J.1.1, J.1.2, K.12-14	Board Plant Stucco Bins	Micro-D-Pulsaire/100.S.8.20; S/N: 71-H-1945	1,500	BH23
J.4, J.5, J.6	End Trim	Unknown/BXW-169-120-III; S/N: BXW3561	20,000	BH24