CLARK COUNTY
THE DEPARTMENT OF AIR QUALITY
4701 West Russell Road, Suite 200, Las Vegas, Nevada 89118
Part 70 Operating Permit
Source: 11
Issued in accordance with the
Clark County Air Quality Regulations (AQR)

ISSUED TO: PABCO Building Products, LLC

SOURCE LOCATION:
PABCO Gypsum
4001 State Route 147
Las Vegas, Nevada 89124
T20S, R64E, Section 7
Hydrographic Basin Number: 215

COMPANY ADDRESS:
P.O. Box 364329
North Las Vegas, Nevada 89036

NATURE OF BUSINESS:
SIC Code 3275: Gypsum Products
SIC Code 1442: Construction Sand and Gravel
NAICS: 327420: Gypsum Product Manufacturing
NAICS: 212321: Construction Sand and Gravel Mining

RESPONSIBLE OFFICIAL:

Name:	Emil Kopilovich
Title:	Vice President Manufacturing
Phone:	(702) 643-1016
Fax Number:	(702) 643-6249

Permit Issuance Date: September 19, 2013
Permit Revision Date: August 11, 2015

Expiration Date: September 18, 2018

ISSUED BY: CLARK COUNTY DEPARTMENT OF AIR QUALITY

Lewis Wallenmeyer
Director, Clark County Department of Air Quality

EXECUTIVE SUMMARY

PABCO Gypsum, a division of PABCO Building Products, LLC (PABCO) operates a wallboard manufacturing facility and Sandia aggregate processing plant located in Clark County, Nevada. PABCO processes gypsum ore which is used to manufacture wallboard. Sandia is PABCO's sand and gravel plant. The sand and gravel that is processed at the plant is sold for other uses. The source operates under SIC Code 3275: Gypsum Products and 1442: Construction Sand and Gravel (NAICS Code 327420: Gypsum Product Manufacturing and 212321: Construction Sand and Gravel Mining). PABCO is located on Lake Mead Boulevard, approximately 12 miles east of the North Las Vegas City Hall, Clark County, Nevada 89124 (T20S, R64E, Section 7) in the Black Mountains Area, Hydrographic Area 215. The Black Mountains Area is classified as PSD for all regulated air pollutants.

Under the primary operating scenario, PABCO receives exhaust gas from the co-located cogeneration facility owned and operated by Nevada Cogeneration Associates #2 (NCA #2) to operate their Impeller Mills (in Boardline #1 Calcining) and Coe board dryer (in Boardline #1 Wallboard). The alternative operating scenario, in which the Impeller mills and Coe board dryer use their own burners, is triggered when NCA #2 turbine exhaust gas is unavailable or not utilized.

A reclaim/reuse process is utilized to recycle approximately four percent of all manufactured wallboard that does not meet industry specifications and would otherwise be disposed of.

An application for a revision to the Part 70 permit was submitted on December 10, 2013, and was prepared in accordance with AQR 12.5 and 40 CFR 70 to revise the Part 70 operating permit to include previously unpermitted emission units: E37a, E41, E42, E43, E27a, H11a, E23a and H20a. This is a significant revision to the Part 70 Operating Permit pursuant to AQR 12.4.3.2(b), which was processed in accordance with AQR 12.5.2.14(c).

An application for a revision to the Part 70 permit was submitted on January 9, 2014, and was prepared in accordance with AQR 12.5 and 40 CFR 70 to revise the Part 70 operating permit for the removal of EU: B24, restructuring of performance testing for NCA #2 exhaust gas from annually to every five years, and testing in-kind for baghouses. This is a significant revision to the Part 70 Operating Permit.

The following table summarizes the source PTE for each regulated air pollutant for all emission units addressed by this Part 70 operating permit:

Source-Wide PTE (tons per year)[1]

Pollutants	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP	CO_2e
Non-fugitive Emissions	**88.69**	**23.64**	**353.29**	**475.40**	**7.04**	**108.50**	**7.23**	**298,132**
Fugitive Emissions	**96.16**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Source Total	**184.85**	**23.64**	**353.29**	**475.4**	**7.04**	**108.5**	**7.23**	**298,132**
Major Stationary Source	**250.00**	**250.00**	**250.00**	**250.00**	**250.00**	**250.00**	**10/25[1]**	**100,000**

[1]Ten (10) tons for any individual HAP or 25 tons for combination of all HAPs.

PABCO is a major stationary source for NO_X, CO and GHG, a major Title V source for PM_{10} and VOC and a minor stationary source for $PM_{2.5}$, SO_2 and HAP.

Pursuant to AQR 12.5.2.7, all terms and conditions in Sections I through IV, and the attachments in this operating permit are federally enforceable unless explicitly denoted otherwise.

TABLE OF CONTENTS

I. ACRONYMS

Table I-1: List of Acronyms

Acronym	Term
Air Quality	Clark County Department of Air Quality
AQR	Clark County Air Quality Regulations
°C	Degrees Celsius
CARB	California Air Resources Board
CEMS	Continuous Emissions Monitoring System
CFR	United States Code of Federal Regulations
CO	Carbon Monoxide
CO_2e	CO_2 Equivalent
EF	Emission Factor
EU	Emission Unit
°F	Degrees Fahrenheit
GDO	Gasoline Dispensing Operation
GPM	Gallons per Minute
HAP	Hazardous Air Pollutant
HP	Horse Power
H_2S	Hydrogen Sulfide
kW	kilowatt
MMBtu	Millions of British Thermal Units
MMscf	Million Standard Cubic Foot
M/N	Model Number
NAICS	North American Industry Classification System
NO_x	Nitrogen Oxides
NRS	Nevada Revised Statutes
OP	Operating Permit
$PM_{2.5}$	Particulate Matter less than 2.5 microns
PM_{10}	Particulate Matter less than 10 microns
ppm	Parts per Million
ppmvd	Parts per Million, Volumetric Dry
PTE	Potential to Emit
RMP	Risk Management Plan
scf	Standard Cubic Feet
scfm	Standard Cubic Feet per minute
S/N	Serial Number
SO_2	Sulfur Oxides
SSM	Startup, Shutdown, and Malfunction
TDS	Total Dissolved Solids
tpy	Tons per Year
VEE	Visible Emission Evaluation
VMT	Vehicle Miles Traveled
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 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 5.1.1]*

6. The Permittee shall allow the Control Officer, upon presentation of credentials: *[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 80.1and 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 any 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 OP, including emission limitations, standards, work practices, and the means for monitoring such compliance.

6. The Permittee shall submit compliance certifications annually in writing to the Control Officer (4701 W Russell Road, Suite 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

   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. Emission Units

1. The stationary source covered by this Part 70 OP is defined to consist of the emission units and associated appurtenances summarized in Tables III-A-1 and III-A-2. *[NSR ATC/OP Modification 7, Revision 0, Section II-B (5/25/05), NSR ATC/OP Modification 8, Revision 0, Section II-A (02/26/07), NSR ATC/OP Modification 9, Revision 0, Section III-A, (11/07/07) and NSR ATC Modification 11, Revision 0, Section IV-A, (12/18/09), AQR 12.5.2.3]*

Table III-A-1: List of Emission Units for PABCO

EU	Description	Rating	Make	Model #	Serial #
A	**Quarry Operations [Group #1]**				
A1	Mining				
A2	Pit Haulage to Plant Feed				
A3	Mined Rock Pile	3.0 Acres			
A4	Disturbed Surfaces				
A5	Blasting				
B	**Beneficiation Operations [Group #2]**				
B1	Hopper Feeder				
B2	Primary Crusher	615 tph	Pioneer	VS4248	403750
B3	Conveyor Belt Drop				
B4	Conveyor Belt Drop				
B5	Conveyor Belt Drop				
B7	Conveyor Belt Drop				
S02	Ore Transfer Belt				
B11	Radial Stacker Drop				
B12	#1 Plant Rock Pile	2.55 Acres			
B13	Belt Feeder Drop				
B14	Belt Feeder Drop				
B15	Belt Feeder Drop				
B16	Conveyor Belt Drop				
B17	Screen	615 tph	MFC Corp.	CS2412	826611-8
B18	Hammermill Crusher	615 tph	Svedala	306-606	H-03-NC
B19	Fines Sump				
B20	Classifier				
B21	Humbolt De-Waterer				
B22	Wet Conveyor Belt				

EU	Description	Rating	Make	Model #	Serial #
B23	Conveyor Belt Drop				
B37	Apron Feeder Drop				
B38	Apron Feeder Drop				
B39	Apron Feeder Drop				
S07	Ore Reclaim Belt				
B40	Screen	615 tph	JCI	6202-32LP	S071888
B42	Screen Collection Belt				
B41	Hammermill	615 tph	Universal Engineering	HM-05-NC	306X615
S13	Recycle Belt				
B43	Blade Mill	615 tph	Kolberg/Pioneer	6536-19T	407227
S26	Twin Screw Classifier				
B44	De-Waterer 1 South		CMI Humbolt	MPC480105R	06-101R
B45	De-Waterer 2 North		CMI Humbolt	MPC0480	01-104
B46	Centrifuge Collection Tank				
B25	Conveyor Belt Drop				
B26	Conveyor Belt Drop				
B27	Conveyor Belt Drop				
B28	Dome Stockpile	1.13 acres			
B29	Conveyor Belt Drop				
B30	Conveyor Belt Drop				
B34	Hopper Feeder				
B35	Hopper Bin				
B31	Mechanical Separator	20 MMBtu/hr	Sturtevant	60-180	400205
B32	Conveyor Belt Drop				
B33	Conveyor Belt Drop				
S27	Dryer Feed Belt				
B36	Rotary Dryer #2	615 tph, 90 MMBtu/hr	Gencor	70x10/8”	M37.11.7001
C	**Railroad Loading [Group #3]**				
C1	Variable Splitter				
C2	Conveyor Belt Drop				
C3	Storage Bin				
C4	Batch Drop				
D	**Boardline #1 Calcining Operation [Group #4]**				
D1	Belt Feeder Drop				
D2	Belt Feeder Drop				
D3	Belt Feeder Drop				
D4	Conveyor Belt Drop				
D43	Transfer Station Screen	180 tph	FMC	65	D-801401
D44	Transfer Station Crusher	30 tph	American Pulverizer	18x18	8133
D5	Variable Splitter				
D6	Bypass Conveyor				

EU	Description	Rating	Make	Model #	Serial #
D7	Conveyor Belt Drop				
D8	Tripper Station				
D9	Screw Conveyor				
D18	Screw Conveyor				
D27	Screw Conveyor				
D10	Rock Bin #1				
D11	Impeller Mill #1	10 tph, 8,301 lbs/hr, 5 MMBtu/hr	CE Raymond	50	Unknown
D13	Rock Bin #2				
D14	Impeller Mill #2	10 tph, 8,301 lbs/hr, 5 MMBtu/hr	CE Raymond	50	64017
D16	Rock Bin #3				
D17	Impeller Mill #3	10 tph, 8,301 lbs/hr, 5 MMBtu/hr	CE Raymond	50	Unknown
D19	Rock Bin #4				
D20	Impeller Mill #4	10 tph, 8,301 lbs/hr, 5 MMBtu/hr	CE Raymond	50	84021
D22	Rock Bin #5				
D23	Impeller Mill #5	10 tph, 8,301 lbs/hr, 5 MMBtu/hr	CE Raymond	50	Unknown
D25	Rock Bin #6				
D26	Impeller Mill #6	10 tph, 8,301 lbs/hr, 5 MMBtu/hr	CE Raymond	50	Unknown
D28	Rock Bin #7				
D29	Impeller Mill #7	10 tph, 8,301 lbs/hr, 5 MMBtu/hr	CE Raymond	50	86003
D31	Rock Bin #8				
D32	Impeller Mill #8	10 tph, 8,301 lbs/hr, 5 MMBtu/hr	CE Raymond	50	86002
D34	Rock Bin #9				
D35	Impeller Mill #9	10 tph, 8,301 lbs/hr, 5 MMBtu/hr	CE Raymond	50	86054
D36	Screw Conveyor				
D37	Screw Conveyor				
D38	Screw Conveyor				
D39	Screw Conveyor				
D40	Screw Conveyor				
D41	Screw Conveyor				
D42	Screw Conveyor				

EU	Description	Rating	Make	Model #	Serial #
E	**Boardline #1 Wallboard Manufacturing [Group #5]**				
E1	Stucco Elevator #1A				
E2	Screw Conveyor				
E3	Stucco Bin #1				
E4	Screw Conveyor				
E5	Entoleter Elevator				
E6	Transfer Point				
E7	Entoleter (Mill)	45 tph	Entoleter, Inc	Series 27/40	5129
E8	Screw Conveyor				
E9	Screw Conveyor				
E10	Stucco Elevator #1				
E11	Screw Conveyor				
E12	Stucco Bin #2				
E13	Rotary Valve				
E14	Bin Discharge Screw #2				
E15	Transfer Point				
E16	Scalping Screw				
E17	Scale (Transfer Point)				
E18	Return Screw				
E19	Stucco Recirculating Elevator				
E20	Bin Recirculation Screw				
E21	Rotary Valve				
E22	Live Bottom Bin				
E23	Metering Screw Conveyor				
E23a	Line #1 Paper Heater	4.625 MMBtu/hr	Style B Linoflame Burners		60693
E25	Accelerator Bin				
E26	Feeder				
E27	Additive Bin				
E27a	Additive Bin/Feeder		Acrision	BDF1.5-GG/2	05467-01
E29	Additive Bin				
E31	Additive Bin				
E33	Additive Bin				
E28	Feeder				
E30	Feeder				
E32	Feeder				
E34	Feeder				
E24	Mixing Screw Conveyor				
E35	Mixer	90 tph	Broder Machine	5750	8150
E37	End Saw				
E37a	End Saw Bunker/Disposal		FOS[1]		

EU	Description	Rating	Make	Model #	Serial #
E38	Product Haul Trucks				
E39	Coe Board Dryer	110 MMBtu/hr			
E40	Printing				
E41	Dunnage/slutter system		Sweetwater Machine and Welding		
E42	Cutback saw process		FOS[1]		
E43	End Saw/Wet Waste Haul Trip				
F	**Accelerator System [Group #6]**				
F1	Screw Conveyor				
F2	Vacuum Feed				
F3	Storage Bin				
F4	Storage Bin				
F5	Crusher	6 tph	Mikropulverizer	44	
F6	Screw Conveyor				
F7	Ball Mill	1 tph	Service Welding and Machine	3x19	
F8	Elevator Conveyor				
G	**Boardline #2 Calcining Operations [Group #7]**				
G1	Screw Conveyor Drop				
G12	Screw Conveyor Drop				
G2	Rock Bin #10				
G3	Impeller Mill #10 – Aggregate	19 MMBtu/hr	Alston	83	97036
G4	Double Cone Classifier				
G5	Cyclone Collector				
G7	Rock Bin #11				
G8	Impeller Mill #11	19 MMBtu/hr	Alston	83	97037
G9	Double Cone Classifier				
G10	Cyclone Collector				
G13	Rock Bin #12				
G14	Impeller Mill #12	22.5 MMBtu/hr	Alston	83	93019
G15	Double Cone Classifier				
G16	Cyclone Collector				
G18	Rock Bin #13				
G19	Impeller Mill #13	22.5 MMBtu/hr	Alston	83	93020
G20	Double Cone Classifier				
G21	Cyclone Collector				
G6	Feed Screw Conveyor Drop				
G11	Feed Screw Conveyor Drop				
G17	Feed Screw Conveyor Drop				
G22	Feed Screw Conveyor Drop				
H	**Boardline #2 Wallboard Manufacturing [Group #8]**				
H1	Stucco Storage Bin #3				

EU	Description	Rating	Make	Model #	Serial #
H2	Stucco Storage Bin #4				
H3	Stucco Screw Conveyor				
H4	Stucco Bucket Elevator				
H5	Recirculating Screw Conveyor				
H7	Stucco Feed Elevator				
H8	Stucco Metering				
H6	Stucco Surge Bin				
H11	Additive Bin				
H11a	Additive Bin/Feeder				
H13	Additive Bin				
H15	Additive Bin				
H19	Additive Bin				
H17	Accelerator Bin				
H12	Feeder				
H14	Feeder				
H16	Feeder				
H18	Feeder				
H20	Feeder				
H20a	Line #2 Paper Heater	5.25 MMBtu/hr	Style B Linoflame Burners		51838
H21	Wet Additives Feeder				
H10	Mixing Screw Conveyor				
H22	Pin Mixer		Broeder Machine Works	8600	
H23	Transfer Point				
H24	End Saw				
H25	Product Haul Trucks				
H26	Flakt Board Dryer Combustion Zone 1	50 MMBtu/hr	ABB Flakt		
	Flakt Board Dryer Combustion Zone 2	39 MMBtu/hr			
	Flakt Board Dryer Combustion Zone 3	18 MMBtu/hr			
H27	Stucco Storage Bin #5				
H28	Stucco Screw Conveyor				
H29	Recirculating Screw Conveyor				
H30	End Saw				
H31	Product Haul Trucks				
H32	Flakt Board Dryer Combustion Zone 1	45 MMBtu/hr	ABB Flakt		
	Flakt Board Dryer Combustion Zone 2	45 MMBtu/hr			
	Flakt Board Dryer Combustion Zone 3	30 MMBtu/hr			

EU	Description	Rating	Make	Model #	Serial #
H33	Stucco Cooler		Gyptech	GKL52690	PALV-0940-ER6565
H34	Stucco Screw Conveyor				
H35	Stucco Screw Conveyor				
H36	Printing				
I	**Cooling Towers [Group #9]**				
I01	Cooling Tower	1200 gpm	Evapco	ATW207C	988659W
I02	Cooling Tower	1200 gpm	Evapco	ATW207C	988659W
J	**Storage Tank/GDO [Group #10]**				
J01	Aboveground Gasoline Storage Tank (10,000 gal)	10,000 gallons			
K	**Reclaim/Reuse Process [Group 11]**				
K01	Screw Grinder	20 tons/hr	ACTA Recycling	KS5-6	TBD
K02	Perforated Screw Conveyor	20 tons/hr	Martin Screw	TBD	TBD
K03	Paper Baler	1 tons/hr	TBD	TBD	TBD
K04	Belt Conveyor	20 tons/hr			
K05	Roller Mill	19.2 tons/hr	Antenore Visentin	RO12C	TBD
K06	Vibratory Screen	19.2 tons/hr	Unknown	Unknown	Unknown
K07	Belt Conveyor	19 tons/hr			
K08	Belt Conveyor	19 tons/hr			
K09	Belt Conveyor	19 tons/hr			
K10	Storage Bin	40 tons/hr			
K11	Screw Conveyor	19 tons/hr			
K12	Screw Conveyor	19 tons/hr			
K13	Screw Conveyor	19 tons/hr			
K14	Unpaved Haul Road	2.3 VMT/hr			
U	**D Pumps [Group #12]**				
U04	Diesel Emergency Fire Pump; DOM: 2007	240 hp	John Deere	6068HF120	PE60684683402
U05	Diesel Emergency Fire Pump; DOM: 2007	240 hp	John Deere	6068HF120	CD6068B020341
U06	Diesel Water Pump; DOM: 2002	85 hp	Perkins	1004-42	AR36677

[1] FOS = Fabricated Onsite

Table III-A-2: List of Emission Units for Sandia

EU	Description	Rating	Make	Model #	Serial #
S	**Sandia Mineral Processing**				
S01	Mining (Overburden & Aggregate)				
S10	Course Recirc. #1				
S11	Course Recirc. #2				
S12	Course Recirc. #3				
S14	Course Discharge Belt 1				
S15	Course Discharge Belt 2				

EU	Description	Rating	Make	Model #	Serial #
S17	West Screen	300 tph			
S18	East Screen	200 tph			
S19	Screen Recirc. Belt				
S20	T/C Discharge Belt				
S21	T/C Crusher	300 tph			
S22	Aggregate Discharge Belt				
S23	Aggregate Stacker				
S24	Course Aggregate Discharge Belt				
S25	Course Aggregate Stacker				
T	**Stockpiles & Haul Road**				
T01	Disturbed Surfaces & Stockpiles				
T02	Haul Road (0.50 RT), 40 tons/load				
U	**Diesel Water Pump**				
U03	Diesel Water Pump	250 kW	Cummins	NTA855-G2	1050827929

B. Emission Limitations and Standards

1. Emission Limitations

a. The Permittee shall not exceed the PTE from each emission unit listed in Tables III-B-1 and III-B-2 in any consecutive 12-month period. *[NSR ATC/OP Modification 7, Revision 0, Section II-B (5/25/05), NSR ATC/OP Modification 8, Revision 0, Section II-A (02/26/07), NSR ATC/OP Modification 9, Revision 0, Section III-A, (11/07/07) and NSR ATC Modification 11, Revision 0, Section IV-A, (12/18/09), AQR 12.5.2.6]*

Table III-B-1: PABCO PTE (tons per year)[1]

EU	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP
A	**Quarry Operations [Group #1]**						
A1	0.11	0.00	0.00	0.00	0.00	0.00	0.00
A2	25.89	0.00	0.00	0.00	0.00	0.00	0.00
A3	0.91	0.00	0.00	0.00	0.00	0.00	0.00
A4	27.27	0.00	0.00	0.00	0.00	0.00	0.00
A5	2.35	0.00	4.45	15.71	0.80	0.00	0.00
B	**Beneficiation Operations [Group #2]**						
B1	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B2	0.62	0.00	0.00	0.00	0.00	0.00	0.00
B3							
B4	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B5	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B7	0.05	0.00	0.00	0.00	0.00	0.00	0.00
S02	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B11	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B12	0.77	0.00	0.00	0.00	0.00	0.00	0.00
B13	0.02	0.00	0.00	0.00	0.00	0.00	0.00

EU	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP
B14	0.02	0.00	0.00	0.00	0.00	0.00	0.00
B15	0.02	0.00	0.00	0.00	0.00	0.00	0.00
B16	2.53	0.00	0.00	0.00	0.00	0.00	0.00
B17		0.00	0.00	0.00	0.00	0.00	0.00
B18	0.62	0.00	0.00	0.00	0.00	0.00	0.00
B19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B20		0.00	0.00	0.00	0.00	0.00	0.00
B21	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B22	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B23	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B37	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B38	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B39	0.05	0.00	0.00	0.00	0.00	0.00	0.00
S07	2.53	0.00	0.00	0.00	0.00	0.00	0.00
B40							
B42							
B41	0.62	0.00	0.00	0.00	0.00	0.00	0.00
S13	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B44	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B45	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B25	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B26	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B27	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B28	0.03	0.00	0.00	0.00	0.00	0.00	0.00
B29	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B30	0.05	0.00	0.00	0.00	0.00	0.00	0.00
B34	1.27	0.00	0.00	0.00	0.00	0.00	0.00
B35	0.01	0.00	0.00	0.00	0.00	0.00	0.00
B31	1.08	0.66	12.26	7.36	0.05	0.48	0.17
B32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B36	11.53	0.03	15.77	60.71	0.24	1.10	0.75
C	**Railroad Loading [Group #3]**						
C1	0.01	0.00	0.00	0.00	0.00	0.00	0.00
C2							
C3							
C4	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D	**Boardline #1 Calcining Operation [Group #4]**						
D1	0.02	0.00	0.00	0.00	0.00	0.00	0.00

EU	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP
D2	0.02	0.00	0.00	0.00	0.00	0.00	0.00
D3	0.02	0.00	0.00	0.00	0.00	0.00	0.00
D4	0.06	0.00	0.00	0.00	0.00	0.00	0.00
D43	0.41	0.00	0.00	0.00	0.00	0.00	0.00
D44	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D5	0.13	0.00	0.00	0.00	0.00	0.00	0.00
D6	0.13	0.00	0.00	0.00	0.00	0.00	0.00
D7	0.06	0.00	0.00	0.00	0.00	0.00	0.00
D8	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D9	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D18	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D10	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D11	0.58	0.02	2.45	4.95	0.06	0.26	0.08
D13	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D14	0.58	0.02	2.45	4.95	0.06	0.26	0.08
D16	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D17	0.58	0.02	2.45	4.95	0.06	0.26	0.08
D19	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D20	0.58	0.02	2.45	4.95	0.06	0.26	0.08
D22	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D23	0.58	0.02	2.45	4.95	0.06	0.26	0.08
D25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D26	0.58	0.02	2.45	4.95	0.06	0.26	0.08
D28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D29	0.58	0.02	2.45	4.95	0.06	0.26	0.08
D31	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D32	0.58	0.02	2.45	4.95	0.06	0.26	0.08
D34	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D35	0.58	0.02	2.45	4.95	0.06	0.26	0.08
D36	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D37	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D38	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D39	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D40	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D41	0.01	0.00	0.00	0.00	0.00	0.00	0.00
D42	0.33	0.00	0.00	0.00	0.00	0.00	0.00
E	**Boardline #1 Wallboard Manufacturing [Group #5]**						
E1	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E2	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E3	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E4	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E5	0.02	0.00	0.00	0.00	0.00	0.00	0.00

EU	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP
E6	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E7	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E8	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E9	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E10	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E11	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E12	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E13	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E14	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E15	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E16	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E17	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E18	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E19	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E20	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E21	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E22	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E23	0.02	0.00	0.00	0.00	0.00	0.00	0.00
E23a	0.16	0.16	2.47	3.01	0.01	0.11	0.04
E25	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E26	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E27	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E27a	0.11	0.00	0.00	0.00	0.00	0.00	0.00
E29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E31	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E33	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E28	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E30	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E32	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E34	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E24	0.03	0.00	0.00	0.00	0.00	0.00	0.00
E35	0.03	0.00	0.00	0.00	0.00	0.00	0.00
E37	1.28	0.00	0.00	0.00	0.00	0.00	0.00
E37a	0.62	0.00	0.00	0.00	0.00	0.00	0.00
E38	0.85	0.00	0.00	0.00	0.00	0.00	0.00
E39	6.60	6.53	76.65	253.55	2.63	7.49	2.69
E40	0.00	0.00	0.00	0.00	0.00	22.03	0.00
E41	0.62	0.00	0.00	0.00	0.00	0.00	0.00
E42	0.01	0.00	0.00	0.00	0.00	0.00	0.00
E43	1.17	0.00	0.00	0.00	0.00	0.00	0.00
F	**Accelerator System [Group #6]**						
F1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	0.00	0.00	0.00	0.00	0.00	0.00	0.00

EU	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP
F3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G	**Boardline #2 Calcining Operations [Group #7]**						
G1	0.02	0.00	0.00	0.00	0.00	0.00	0.00
G12	0.03	0.00	0.00	0.00	0.00	0.00	0.00
G2	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G3	4.08	0.99	8.32	1.75	0.05	0.44	0.15
G4	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G5	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G7	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G8	4.08	0.99	8.32	1.75	0.05	0.44	0.15
G9	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G10	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G13	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G14	4.70	0.74	13.80	8.28	0.06	0.54	0.20
G15	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G16	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G18	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G19	4.70	0.74	13.80	8.28	0.06	0.54	0.20
G20	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G21	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G6	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G11	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G17	0.01	0.00	0.00	0.00	0.00	0.00	0.00
G22	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H	**Boardline #2 Wallboard Manufacturing [Group #8]**						
H1	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H2	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H3	0.02	0.00	0.00	0.00	0.00	0.00	0.00
H4	0.02	0.00	0.00	0.00	0.00	0.00	0.00
H5	0.02	0.00	0.00	0.00	0.00	0.00	0.00
H7	0.02	0.00	0.00	0.00	0.00	0.00	0.00
H8	0.02	0.00	0.00	0.00	0.00	0.00	0.00
H6	0.02	0.00	0.00	0.00	0.00	0.00	0.00
H11	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H11a	1.38	0.00	0.00	0.00	0.00	0.00	0.00
H13	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H15	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H19	0.01	0.00	0.00	0.00	0.00	0.00	0.00

EU	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP
H17	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H12	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H14	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H16	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H18	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H20	0.01	0.00	0.00	0.00	0.00	0.00	0.00
H20a	0.17	0.17	2.80	3.41	0.01	0.12	0.04
H21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H10	0.03	0.00	0.00	0.00	0.00	0.00	0.00
H22	0.03	0.00	0.00	0.00	0.00	0.00	0.00
H23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H24	1.85	0.00	0.00	0.00	0.00	0.00	0.00
H25	1.23	0.00	0.00	0.00	0.00	0.00	0.00
H26	6.47	6.40	65.61	16.41	0.28	1.31	0.93
H27	0.03	0.00	0.00	0.00	0.00	0.00	0.00
H28	0.03	0.00	0.00	0.00	0.00	0.00	0.00
H29	0.03	0.00	0.00	0.00	0.00	0.00	0.00
H30	1.85	0.00	0.00	0.00	0.00	0.00	0.00
H31	1.23	0.00	0.00	0.00	0.00	0.00	0.00
H32	4.00	3.95	73.58	44.16	0.32	2.88	1.04
H33	0.05	0.00	0.00	0.00	0.00	0.00	0.00
H34	0.03	0.00	0.00	0.00	0.00	0.00	0.00
H35	0.03	0.00	0.00	0.00	0.00	0.00	0.00
H36	0.00	0.00	0.00	0.00	0.00	63.48	0.00
I	**Cooling Towers [Group #9]**						
I01	0.16	0.00	0.00	0.00	0.00	0.00	0.00
I02	0.16	0.00	0.00	0.00	0.00	0.00	0.00
J	**Storage Tank/GDO [Group #10]**						
J01	0.00	0.00	0.00	0.00	0.00	2.77	0.78
K	**Reclaim/Reuse Process [Group 11]**						
K01	1.31	0.00	0.00	0.00	0.00	0.00	0.00
K02	0.12	0.00	0.00	0.00	0.00	0.00	0.00
K03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
K04	0.12	0.00	0.00	0.00	0.00	0.00	0.00
K05	1.26	0.00	0.00	0.00	0.00	0.00	0.00
K06	1.26	0.00	0.00	0.00	0.00	0.00	0.00
K07	0.12	0.00	0.00	0.00	0.00	0.00	0.00
K08	0.12	0.00	0.00	0.00	0.00	0.00	0.00
K09	0.12	0.00	0.00	0.00	0.00	0.00	0.00
K10	0.12	0.00	0.00	0.00	0.00	0.00	0.00
K11	0.12	0.00	0.00	0.00	0.00	0.00	0.00
K12	0.12	0.00	0.00	0.00	0.00	0.00	0.00
K13	0.12	0.00	0.00	0.00	0.00	0.00	0.00

EU	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP
	Reclaim Process – Haul Road						
K14	7.54	0.00	0.00	0.00	0.00	0.00	0.00
U	**Diesel Water Pumps [Group #12]**						
U04	0.03	0.03	0.43	0.08	0.02	0.03	0.01
U05	0.03	0.03	0.43	0.08	0.02	0.03	0.01
U06	0.04	0.04	0.24	0.11	0.01	0.01	0.01

[1] Worst case emissions are shown for emission units with multiple operating scenarios.

Table III-B-2: Sandia PTE (tons per year)

EU	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP
S	**Sandia Mineral Processing**						
S01	12.40	0.00	0.00	0.00	0.00	0.00	0.00
S10	0.62	0.00	0.00	0.00	0.00	0.00	0.00
S11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S14	0.62	0.00	0.00	0.00	0.00	0.00	0.00
S15	0.62	0.00	0.00	0.00	0.00	0.00	0.00
S17	1.12	0.00	0.00	0.00	0.00	0.00	0.00
S18	0.74	0.00	0.00	0.00	0.00	0.00	0.00
S19	0.05	0.00	0.00	0.00	0.00	0.00	0.00
S20	0.14	0.00	0.00	0.00	0.00	0.00	0.00
S21	1.81	0.00	0.00	0.00	0.00	0.00	0.00
S22	0.03	0.00	0.00	0.00	0.00	0.00	0.00
S23	0.14	0.00	0.00	0.00	0.00	0.00	0.00
S24	0.03	0.00	0.00	0.00	0.00	0.00	0.00
S25	0.14	0.00	0.00	0.00	0.00	0.00	0.00
T	**Stockpiles & Haul Road**						
T01	3.64	0.00	0.00	0.00	0.00	0.00	0.00
T02	11.83	0.00	0.00	0.00	0.00	0.00	0.00
U	**Diesel Water Pump**						
U03	2.02	2.00	28.71	6.20	1.89	2.36	0.12

PABCO

b. Unless otherwise specified, 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]*

c. The Permittee shall not discharge fugitive emissions into the atmosphere from grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility as defined in 40 CFR 60, 60.670 and 60.671 that commenced construction, modification or reconstruction after August 31, 1983 but before April 22, 2008 (EUs: B1, B3 – B5, B7, S02, B11, B13 - B17, B21, B22, B23, B37, B38, B39, S07, B40, B42, B41, S13, B44, B45, B25, B26, B27, B29, B30, B34, B32, B33, S27, C1 - C4, D5, D6, and D42) in excess of 10 percent opacity for a period of more than 6 consecutive minutes. *[40 CFR 60, Subpart OOO (60.672(b))]*

d. The Permittee shall not discharge fugitive emissions into the atmosphere from crushers at which a capture system is not used, that commenced construction, modification or reconstruction after August 31, 1983 but before April 22, 2008 (EUs: B2 and B18) in excess of an average of 15 percent opacity for a period of more than 6 consecutive minutes. *[40 CFR 60, Subpart OOO (60.672(b))]*

e. The Permittee shall not discharge fugitive emissions into the atmosphere from affected facilities as defined by 40 CFR 60, 60.670 and 60.671 at which a capture system is used. that commenced construction, modification or reconstruction after August 31, 1983 but before April 22, 2008 (EUs: B35, B31, D1-D4, D7, D8, D9, D18, D27, D10, D13, D16, D19, D22, D25, D28, D31, D34, D36-D41, D43, D44, E1-E35, E37-E43, G1, G2, G4-G7, G9-G13, G15-G18, G20-G22, H1-H8, H10-H20, H22, H24, H27, H28, H29, H30, H33, H34 and H35) in excess of an average of 7 percent opacity for a period of more than 6 consecutive minutes. *[40 CFR 60, Subpart OOO (60.672(a))]*

f. The Permittee shall not discharge fugitive emissions into the atmosphere from affected facilities as defined by 40 CFR 60, 60.730 and 60.731 at which a capture system is used, (EUs: D11, D14, D17, D20, D23, D26, D29, D32, D35, G3, G8, G14, and G19 in excess of an average of 10 percent opacity for a period of more than 6 consecutive minutes. *[40 CFR 60, Subpart UUU (60.732(b))]*

g. The Permittee shall not allow actual stack emissions from affected facilities as defined by 40 CFR 60, 60.670 and 60.671 at which a capture system is used, that commenced construction, modification or reconstruction after August 31, 1983 but before April 22, 2008 (EUs: B35, B31, D1 - D4, D7, D8, D9, D18, D27, D10, D13, D16, D19, D22, D25, D28, D31, D34, D36-D41, D43, D44, E1-E35, E37-E43, G1, G2, G4-G7, G9-G13, G15-G18, G20-G22, H1-H8, H10-H20, H22, H24, H27, H28, H29, H30, H33, H34 and H35) to exceed a PM concentration of 0.05 g/dscm (0.022 gr/dscf), unless otherwise required by this permit. *[40 CFR 60, Subpart OOO (60.672(a))]*

h. The Permittee shall not allow actual stack emissions from affected facilities as defined by 40 CFR 60, 60.670 and 60.671 at which a capture system is used, EUs: D11, D14, D17, D20, D23, D26, D29, D32, D35, G3, G8, G14, and G19 to exceed a PM concentration of 0.092 g/dscm (0.040 gr/dscf), unless otherwise required by this permit. *[40 CFR 60, Subpart UUU (60.732(a))]*

i. The Permittee shall not discharge visible emissions into the atmosphere from emission units specified in this document as either a 100% enclosure or wet process (EUs: B19, B20, B43, S26, B46, F1 - F8, H21, H23 and K03). *[AQR 12.5.2.6(a)]*

j. The Permittee shall not discharge fugitive emissions into the atmosphere from the affected dryer (EU: B36) in excess of 10 percent opacity. *[40 CFR 60, Subpart UUU (60.732(b))]*

k. The Permittee shall not allow actual stack emissions from the affected dryer (EU: B36) to exceed a PM concentration in excess of 0.057 g/dscm (0.025 gr/dscf). *[40 CFR 60, Subpart UUU (60.732)]*

l. The Permittee shall not allow actual stack emissions from the affected dryer (EU: B36) to exceed the NO_x and CO emission rates specified in Table III-B-3 of this permit. *[NSR ATC/OP Modification 8, Table II-B-4b (2/26/07)]*

m. The Permittee shall not allow actual stack emissions from the affected dryers (EUs: E39, H26 and H32) to exceed the NO_x, CO and VOC emission rates specified in Table III-B-3 of this permit. *[NSR ATC/OP Modification 7, Tables II-B-7 and II-B-8 (2/26/07)]*

n. The Permittee shall not allow actual stack emissions from the natural gas Paper Heaters (EUs: E23a and H20a) to exceed the PM_{10}, NO_X, CO and VOC emission rates specified in

Table III-B-3 of this permit. *[Application for Significant Revision to Part 70 permit (12/10/2013)]*

o. The Permittee shall maintain paved haul roads so not to discharge fugitive emissions into the atmosphere in excess of 10 percent opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period. *[NSR ATC/OP Modification 6, Revision 1, Condition III-B-2-d (08/12/04)]*

p. The Permittee shall not discharge emissions into the atmosphere from the diesel emergency fire pumps (EUs: U04 and U05) in excess of 10.5 g/kW-hr (7.8 g/hp-hr) of NMHC + NO_X, 3.5 g/kW-hr (2.6 g/hp-hr) of CO and 0.54 g/kW-hr (0.40 g/hp-hr) of PM. *[40 CFR 60, Subpart IIII §60.4205(c)]*

Table III-B-3: PABCO Emission Rate and Concentration Limits[1]

EU	PM (gr/dscf)	NO_X (lbs/hr)	CO (lbs/hr)	VOC (lbs/hr)
B35	0.022			
B31	0.022			
B36	0.025	3.60	13.86	
D1 – D4, D7- D10, D13. D16, D18, D19, D22, D25,D27, D28, D31, D34, D36-D41, D43, D44	0.022			
D11, D14, D17, D20, D23, D26, D29, D32, D35	0.040			
E1 – E20	0.022			
E21 – E35, E37	0.022			
E39		17.50	57.89	1.71
G1, G6, G11, G12, G17, G22	0.022			
G3, G8, G14, G19	0.040			
G2, G4, G5	0.022			
G7 – G10	0.022			
G13 – G16	0.022			
G18 – G21	0.022			
H20a	0.04	0.64	0.78	0.03
H1 – H5, H7, H8, H27 – H29, H33 – H35	0.022			
H6, H10 – H20, H22, H24	0.022			
H26 Zone 1		7.00	1.75	0.14
H26 Zone 2		5.46	1.37	0.11
H26 Zone 3		2.52	0.63	0.05
H30	0.022			
H32 Zone 1		6.30	3.78	0.25
H32 Zone 2		6.30	3.78	0.25
H32 Zone 3		4.20	2.52	0.17

1) Line items with multiple emission units are controlled by one control device (one stack) with one emission limitation.

Table III-B-4: Sandia Emission Rate Limits

EU	PM	NO_X	CO (lbs/hr)	VOC
U03			2.00	

Sandia

q. 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, unless otherwise required by this permit. *[AQR 26.1.1]*

r. The Permittee shall not discharge fugitive emissions into the atmosphere from grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility as defined in 40 CFR 60, 60.670 and 60.671 that commenced construction, modification or reconstruction after August 31, 1983 but before April 22, 2008 (EUs: S10, S11, S12, S14, S15, S17, S18, S19, S20, S22, S23, S24 and S25) in excess of an average of 10 percent opacity for a period of more than 6 consecutive minutes. *[40 CFR 60, Subpart OOO (60.672(b))]*

s. The Permittee shall not discharge fugitive emissions into the atmosphere from crushers at which a capture system is not used, that commenced construction, modification or reconstruction after August 31, 1983 but before April 22, 2008 (EU: S21) in excess of an average of 15 percent opacity for a period of more than 6 consecutive minutes. *[40 CFR 60, Subpart OOO (60.672(b))]*

t. The Permittee shall maintain the unpaved haul roads so not to discharge fugitive emissions into the atmosphere in excess of 10 percent opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period. *[NSR ATC/OP Modification 6, Revision 1, Condition III-B-3-c (08/12/04)]*

u. The Permittee shall control emissions from the exhaust of the generator set (EU: U03) as follows: *[40 CFR 63, Subpart ZZZZ §63.6603(a)]*

   i. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O_2; or

   ii. Reduce CO emissions by 70 percent or more.

2. Operational Limitations

PABCO

a. The Permittee shall limit each operation to the throughputs listed in Table III-B-5 in any consecutive twelve months. *[NSR ATC/OP Modification 6, Revision 0, Condition III-A-1(03/26/04), AQR 12.5.2.6(a)]*

Table III-B-5: Operational Limitations

Operation	EU	Description	Throughput
Exhaust Gas Received from NCA			2,277,600 tons
Quarry – Group 1	A1	Mining	2,300,000 tons
	A5	Blasting	746,352 ft^2 (aggregate)
			750 tons (ANFO)
			45 tons (Emulsion)
			14 tons (High Explosive)
			0.90 tons (Cast TNT Booster)
Beneficiation – Group 2	B2	Primary Crusher	2,300,000 tons
Railroad Loading – Group 3	C1	Railroad Loading	250,000 tons
	D1, D2, D3	Belt Feeder Drops	2,300,000 tons total

Operation	EU	Description	Throughput
Calcining Line #1 – Group 4	D11, D14, D17, D20, D23, D26, D29, D32, D35	Impeller Mills #1-#9	40,889 tons aggregate (each), 36,359 tons exhaust gas from NCA (each)
	D36, D37, D38, D39, D40, D41	Screw Conveyors	55,200 tons (each)
	D42	Screw Conveyor	331,200 tons
Wallboard Line #1 – Group 5	E3	Stucco Bin #1	331,200 tons
	E12	Stucco Bin #2	397,440 tons
	E17	Scale (Transfer Point)	66,240 tons
	E22	Live Bottom Bin	397,440 tons
	E25	Accelerator Bin	1,197 tons
	E27, E27a, E29, E31, E33	Additive Bins	8,346 tons (each)
	E35	Mixer	450,000 tons
	E37	End Saw	450,000,000 ft^2
	E37a	End Saw Bunker Disposal Process	10,000 tons
	E39	Coe Board Dryer	1,950,370 tons exhaust gas from NCA
	E40	Inks and Additives (Printing and Alpha Foamer	400 pounds Black Ink
			500 pounds Make-up Ink
			270,000 pounds Alpha Foamer
	E41	Dunnage / slutter system	36,000,000 square board feet
	E42	Cutback saw process	2,750,000 square board feet
	E43	End Saw/Wet Waste Haul Trip	4,161 VMT
Accelerator – Group 6	F3, F4	Storage Bins	5,000 tons (each)
	F5	Crusher	10,000 tons
Calcining Line #2 – Group 7	G1	Screw Conveyor	452,000 tons
	G12	Screw Conveyor	580,000 tons
	G3, G8	Impeller Mills #10-#11	226,000 tons
	G14, G19	Impeller Mills #12-#13	290,000 tons
Wallboard Line #2 – Group 8	H1, H2	Stucco Bins #3 and #4	226,000 tons (each)
	H6	Stucco Surge Bin	452,000 tons
	H11, H11a, H13, H15, H19	Additive Bins	119,500 tons (each)
	H17	Accelerator Bin	8,803 tons
	H22	Pin Mixer	606,303 tons
	H24, H30	End Saws	650,000,000 ft^2 (each)
	H27	Stucco Storage Bin #5	580,000 tons
	H33	Stucco Cooler	1,032,000 tons
	H36	Inks and Additives (Printing and Alpha Foamer)	500 pounds Black Ink
			625 pounds Make-up Ink
			390,000 pounds Alpha Foamer
Storage Tanks – Group 10	J01	GDO	22,000 gallons

b. The Permittee shall limit the total area of stockpiles throughout the gypsum product operation (EUs: A03, B12 and B28) to 6.68 acres. *[AQR 12.5.2.6(a)]*

c. The Permittee shall limit the total VMT for haulage throughout the gypsum product operations as presented in Table III-B-5(a) in any consecutive twelve month period. *[AQR 12.5.2.6(a)]*

Table III-B-5(a): Operational Limitations for Haul Roads Source Wide

EU	Haul Roads per Process	Operational Limit (VMT/Consecutive twelve month period)
A02	Pit Haulage to Plant Feed	68,389
E38, H25, H31	Product Haul Trucks	32,500
E43, K14	Waste and Reclaim/Reuse Haul Trip	24,055

d. The Permittee shall limit the operation of the emergency fire pumps (EUs: U04 and U05) for testing and maintenance purposes to 100 hours per year. The Permittee may operate the emergency generator up to 50 hours per year for nonemergency situations, but those hours count towards the 100 hours provided for testing and maintenance. The 50 hours per year for nonemergency situations cannot be used for peak shavings or to generate income for the facility. *[40 CFR 60, Subpart IIII (60.4211)]*

e. The Permittee shall limit the operation of the water pump (EU: U06) to 400 hours in any consecutive twelve month period. *[NSR ATC Modification 11, Revision 0, Section IV-B-2(b) (12/18/09)]*

Sandia

f. The Permittee shall limit the amount of material processed in the aggregate plant to 2,500,000 tons in any consecutive twelve month period. *[NSR ATC/OP Modification 6, Revision 0, Condition III-A-3(b) (03/26/04)]*

g. The Permittee shall limit the operation of each emission unit in the aggregate processing plant (EUs: S01, S10, S14, S17, S18, S21, S23, S25 and U03) to up to 6,200 hours in any consecutive twelve month period. *[NSR ATC/OP Modification 6, Revision 0, Condition III-A-3(a) (03/26/04)]*

h. The Permittee shall limit the total area of stockpiles and disturbed surfaces throughout the aggregate processing operation (EU: T01) to 12.0 acres. *[NSR ATC Modification 6, Section III-A-1 (03/26/04)]*

i. The Permittee shall limit the total VMT for haulage on roads throughout the aggregate processing operation (EU: T02) to 31,250 miles in any consecutive twelve month period. *[NSR ATC Modification 6, Section III-A-1 (03/26/04)]*

3. Emission Controls

PABCO Mineral Processing and Wallboard Manufacturing

a. The Permittee shall not allow the silt loading on haul roads to exceed 0.33 ounces per square foot as determined by AQR 93.4.1 *[NSR ATC/OP, Modification 6, Revision 1, Condition III-B-2-e (08/12/04)]*

b. The Permittee shall monitor moisture content of the gypsum raw material and apply wet suppression, as needed, to emissions unit B2 to control PM emissions within allowable opacity limits during processing of material. *[AQR 12.5.2.6(a)]*

c. The Permittee shall maintain partial enclosures to achieve a minimum rated particulate

control efficiency of 90 percent (EUs: B28, C1, C2, C3, D5, D6, and D42). *[AQR 12.5.2.6(a)]*

d. The Permittee shall maintain full enclosures and wet processes so as to achieve the rated particulate control efficiency of 100 percent (EUs: B19, B20, B43, S26, B46, F1, F2, F3, F4, F5, F6, F7, F8 and K03). *[AQR 12.5.2.6(a)]*

e. The Permittee shall achieve a minimum particulate control efficiency of 99.5 percent with each of the baghouses listed in Table III-B-6. *[AQR 12.5.2.6(a)]*

f. The Permittee shall maintain an effective seal around each of the baghouses. *[NSR ATC/OP Modification 6, Revision 1, Condition III-B-2-k (08/12/04)]*

g. The Permittee shall maintain the pressure drop across each baghouse within the limits listed in Table III-B-6, unless specified differently by the baghouse manufacturer's operation and maintenance guidelines. A copy of the manufacturer's limits shall be posted near the gauge for reference at any time by the Control Officer or appropriate representative. *[NSR ATC/OP Modification 6, Revision 1, Condition III-B-2-k (08/12/04)]*

h. The Permittee shall use baghouses to control particulate emissions from emission units at all times the processing equipment is operating, as indicated in Table III-B-6. *[NSR ATC/OP, Modification 6, Revision 1, Condition III-B-2-j (08/12/04) and AQR 12.5.2.6(a)]*

Table III-B-6: Summary of Add-On Control Devices

EU	Device Type	Manufacturer	Model #	Serial #	Pressure Drop	Pollutant
E41	Baghouse 1	General Combustion	UFI-70	14005	1-9"	PM_{10}
B31, D43, D44	Baghouse 2	SLY	STJ-5617-12	RP6-1055	1-6"	PM_{10}
B36	Baghouse 3	Gencor	CFS225	225BH155898 - 07-NA	1-9"	PM_{10}
D1 – D4	Baghouse 4	Mikropul	121S-8-20-TR"C"	990141111GA	1-12"	PM_{10}
D7, D8, D9, D10, D13, D16, D18, D19, D22, D25, D27 D28, D31, D34, G2, G7, G13 and G18	Baghouse 5	Buell Norblo	NA	NA	1-6"	PM_{10}
D11	Baghouse 6	Pulse Air	Ultra Jet #50	NA	1-9"	PM_{10}
D14	Baghouse 7	Pulse Air	Ultra Jet #50	64017	1-9"	PM_{10}
D17	Baghouse 8	Pulse Air	Ultra Jet #50	NA	1-9"	PM_{10}
D20	Baghouse 9	Pulse Air	Ultra Jet #50	84021	1-9"	PM_{10}
D23	Baghouse 10	Pulse Air	Ultra Jet #50	NA	1-9"	PM_{10}
D26	Baghouse 11	Pulse Air	Ultra Jet #50	NA	1-9"	PM_{10}
D29	Baghouse 12	Mikro Pulsaire	Ultra Jet #50	86003	1-9"	PM_{10}
D32	Baghouse 13	Mikro Pulsaire	Ultra Jet #50	86002	1-9"	PM_{10}
D35	Baghouse 14	Mikro Pulsaire	Ultra Jet #50	86054	1-9"	PM_{10}
D36 – D41	Baghouse 15	Rayjet	6T100-46T	NA	1-6"	PM_{10}
E1 – E20	Baghouse 16	Wheelabrator-Frye	84	48	1-6"	PM_{10}
E21 – E35, E37, E37a,	Baghouse 17	Hosokawa Mikropul	25S8-20	980009H1	1-9"	PM_{10}

EU	Device Type	Manufacturer	Model #	Serial #	Pressure Drop	Pollutant
E41, E42						
G1, G6, G11, G12, G17, G22	Baghouse 18	Mikro Pulsaire	255-8-30	98095112	1-6”	PM_{10}
G3 – G5	Baghouse 19	CP Environmental	144TNFW 465C	97036	1-9”	PM_{10}
G8 – G10	Baghouse 20	CP Environmental	144TNFW 465C	97037	1-9”	PM_{10}
G14 – G16	Baghouse 21	CP Environmental	144TNFW 465C	3019	1-9”	PM_{10}
G19 – G21	Baghouse 22	CP Environmental	144TNFW 465C	3020	1-9”	PM_{10}
H1 – H5, H7, H8, H27 – H29	Baghouse 23	Mikro Pulse Air	255-8-30	980095111	1-6”	PM_{10}
H6, H10 – H20, H22, H24	Baghouse 24	Hosokawa Mikropul	25S8-20	980009H2	1-9”	PM_{10}
H30	Baghouse 25	Hosokawa Mikropul	25S8-20	860106H1	1-9”	PM_{10}

PABCO Cooling Towers

i. The Permittee shall operate each of the cooling towers with drift eliminators that have a manufacturer’s maximum drift rate of 0.001 percent (EUs: I01 and I02). *[AQR 12.5.2.6(a)]*

j. The Permittee shall limit the TDS content of each of the cooling tower circulation water to 6,000 ppm (EUs: I01 and I02). *[NSR ATC Modification 8, Revision 0, Condition III-B-2(m) (02/26/2007)]*

k. The Permittee shall operate and maintain each of the cooling towers in accordance with the manufacturer’s specifications (EUs: I01 and I02). *[AQR 12.5.2.6(a)]*

l. No chromium containing compounds shall be used for water treatment in each of the cooling towers (EUs: I01 and I02). *[AQR 12.5.2.6(a)]*

PABCO Gasoline Dispensing

m. The Permittee shall implement control technology requirements on gasoline dispensing equipment as follows: *[40 CFR 63 Subpart CCCCCC]*

    i. The Permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Preventative measures to be taken include, but are not limited to, the following: *[40 CFR §63.11116 and §63.11117]*

        1. Minimize gasoline spills.

        2. Clean up spills as expeditiously as practicable.

        3. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use.

        4. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

        5. Only load gasoline into storage tanks using a submerged fill tube where the greatest distance from the bottom of the storage tank to the point of opening of the fill tube is no more than 6 inches.

ii. The Permittee shall install, maintain and operate a Phase I Vapor Recovery System on all storage tanks that meets the following requirements: *[40 CFR §63 .11118]*

1. The Phase I vapor recovery system shall be rated with at least 90.0 percent control efficiency when in operation. This system shall be certified by an industry recognized certification body, i.e., California Air Resources Board (CARB) or equivalent.
2. The Phase I vapor recovery system shall be a dual-point vapor balance system, as defined by 40 CFR 63.11132, in which the storage tank is equipped with an entry port for a gasoline fill pipe and a separate exit port for a vapor connection.
3. All Phase I vapor recovery equipment shall be installed, maintained and operated in accordance with the manufacturer's specifications and certification requirement.
4. All vapor connections and lines on storage tanks shall be equipped with closures that seal upon disconnect.
5. The vapor line from the gasoline storage tanks to the gasoline cargo tank shall be vapor-tight, as defined in 40 CFR 63.11132.
6. The vapor balance system shall be designed such that the pressure in the cargo tank does not exceed 18 inches water pressure or 5.9 inches water vacuum during product transfer.
7. The vapor recovery and product adaptors, and the method of connection with the delivery elbow, shall be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations.
8. If a gauge well separate from the fill tube is used, it shall be provided with a submerged drop tube that extends the same distance from the bottom of the tank as the fill tube.
9. Liquid fill connections for all systems shall be equipped with vapor-tight caps.
10. A pressure/vacuum (PV) vent valve on each gasoline storage tank system shall be installed, maintained and operated in accordance with the manufacturer's specifications. The pressure specifications for PV vent valves shall comply with:
    a. a positive pressure setting of 2.5 to 6.0 inches of water, and a negative pressure setting of 6.0 to 10.0 inches of water; and
    b. the total leak rate of all PV vent valves at the affected facility, including connections, shall not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water and 0.63 cubic foot per hour at a vacuum of 4 inches of water. *[40 CFR 63.11118]*
11. The vapor balance system shall be capable of meeting the static pressure performance requirement in 40 CFR 63, Subpart CCCCCC, Table 1, Part 1 and comply with the equation: $Pf = 2e^{-500.887/v}$

iii. Cargo tanks unloading at the source must comply with management practices as follows: *[40 CFR §63.11118(d)]*

1. All hoses in the vapor balance system are properly connected.
2. The adapters or couplers that attach to the vapor line on the storage tank have closures that seal upon disconnect.
3. All vapor return hoses, couplers, and adapters used in the gasoline delivery are

vapor-tight.

4. All tank truck vapor return equipment is compatible in size and forms a vapor-tight connection with the vapor balance equipment on the GDF storage tank.
5. All hatches on the tank truck are closed and securely fastened.
6. The filling of storage tanks shall be limited to unloading from vapor-tight gasoline cargo tanks with documentation carried onboard that it has met the specifications of EPA Method 27.

PABCO Diesel Water Pumps

n. The Permittee shall operate and maintain each of the emergency fire pumps and the water pump in accordance with the manufacturer's specifications (EUs: U04, U05 and U06). *[NSR ATC Modification 11, Revision 0, Condition IV-B-2(c) (12/18/2009)]*

o. The Permittee shall only combust diesel fuel in each emergency fire pump engine with a maximum sulfur content of 15 ppm and either a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume (EUs: U04 and U05). *[NSR ATC Modification 11, Revision 0, Condition IV-B-2(d) (12/18/2009) and 40 CFR 60, Subpart IIII §60.4207]*

p. The Permittee shall combust only low sulfur (≤500 ppm) diesel fuel in the water pump engine (EU: U06) *[NSR ATC Modification 11, Revision 0, Condition IV-B-3(a) (12/18/2009)]*

q. The Permittee shall maintain the water pump engine (EU: U06) as follows, unless the manufacturer's specifications are more stringent: *[40 CFR 63, Subpart ZZZZ §63.6603(a)]*

   i. Change oil and filter every 1,000 hours of operation or annually, whichever comes first;
   ii. Inspect air cleaners every 1,000 hours of operation or annually, whichever comes first; and
   iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

r. The Permittee shall at all times operate and maintain the diesel water pump engine including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but will not be limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records and inspections of the source (EU: U06). *[40 CFR 63, Subpart ZZZZ §63.6605(b)]*

s. The Permittee shall minimize the diesel water pump engine time spent at idle during startup and minimize all engines' startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards are applicable to all time other than start up (EU: U06). *[40 CFR 63, Subpart ZZZZ §63.6625(h)]*

Sandia Mineral Processing

t. The Permittee shall not cause or allow fugitive dust to become airborne without taking reasonable precautions and shall not cause or allow the discharge of visible emissions of fugitive dust beyond the lot line of the property on which the emissions originate. *[NSR*

ATC/OP Modification 6, Revision 1, Condition III-B-3-a (08/12/04)]

u. The Permittee shall not allow the silt content to exceed 6.0 percent and silt loading shall not exceed 0.33 ounces per square foot at any time. *[NSR ATC/OP Modification 6, Revision 1, Condition III-B-3-b (08/12/04)]*

v. Regardless of who owns or operates trucks leaving the site, the Permittee shall ensure that vehicles have a proper cover while onsite so as to prevent visible emissions. *[NSR ATC/OP Modification 6, Revision 1, Condition III-B-3-d (08/12/04)]*

w. The Permittee shall apply wet suppression to maintain moisture content and control emissions within allowable limits. Each mineral processing emission unit shall incorporate an effective water spray system that is maintained in good operating condition and used at all times during the processing of materials. *[NSR ATC/OP Modification 6, Revision 1, Conditions III-B-3-g and III-B-3-h (08/12/04)]*

Sandia Diesel Water Pumps

x. The Permittee shall operate and maintain the water pump in accordance with the manufacturer's specifications (EU: U03). *[AQR 12.5.2.6(a)]*

y. The Permittee shall combust diesel fuel in the water pump engine with a maximum sulfur content of 15 ppm and either a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume (EU: U03). *[40 CFR 63, Subpart ZZZZ §63.6604]*

z. The Permittee shall at all times operate and maintain the water pump engine, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but will not be limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records and inspections of the source (EU: U03). *[40 CFR 63, Subpart ZZZZ §63.6605(b)]*

aa. The Permittee shall comply with either condition (EU: U03): *[40 CFR 63, Subpart ZZZZ §63.6625(g)]*

  i. Install a closed crankcase ventilation system on the water pump engine that prevents crankcase emission from being emitted to the atmosphere; or

  ii. Install an open crankcase filtration emission control system on the water pump engine that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.

    a. The Permittee shall follow manufacturer's specified maintenance requirements for operating and maintaining the open crankcase ventilation system and replace the crankcase filters as specified.

bb. The Permittee shall minimize the water pump engine's time spent at idle during startup and minimize all engines' startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards are applicable to all time other than start up (EU: U03). *[40 CFR 63, Subpart ZZZZ §63.6625(h)]*

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)]*

<u>PABCO Mineral Processing and Wallboard Manufacturing/Recycling</u>

5. The Permittee shall monitor the throughput of each emission unit to demonstrate compliance with the operational limits on a monthly basis. *[AQR 12.5.2.6(d)]*

6. The Permittee shall monitor daily the free moisture content of the mined gypsum raw material during processing of material. *[AQR 12.5.2.6(d)]*

7. The Permittee shall monitor the visible emissions opacity at all transfer point locations daily during processing of material and investigate and correct any problems before resuming operations. *[AQR 12.5.2.6(d)]*

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 per manufacturer's specifications. *[AQR 12.5.2.6(d)]*

9. The Permittee shall visually inspect each baghouse interior at least monthly for air leaks. Defective compartments shall be sealed off and repairs completed within 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)]*

10. 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. *[AQR 12.5.2.6(d)]*

11. The Permittee shall determine silt content from all unpaved haul roads at least once semi-annually when in operation in accordance with AQR 91.4.1.2 (EUs: A02, E38, H25 and H31). *[NSR ATC/OP Modification 6, Revision 1, Condition III-E-11 (08/12/04)]*

12. The Permittee shall determine silt loading from all paved haul roads at least once semi-annually when in operation in accordance with AQR 93.4.1.2 (EUs: A02, E38, E43, H25 and

H31). *[NSR ATC/OP Modification 6, Revision 1, Condition III-E-12 (08/12/04)]*

PABCO Cooling Towers

13. The Permittee shall monitor the TDS of the cooling tower recirculation water monthly using a conductivity meter or other device approved in advance by the Control Officer (EUs: I01 and I02). *[AQR 12.5.2.6(d)]*

PABCO Gasoline Dispensing

14. The Permittee shall monitor the throughput of gasoline (EU: J01) and calculate the monthly total of the last 365 days of gasoline throughput divided by 12. *[AQR 12.5.2.6(d)]*

15. 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.

16. The Permittee shall conduct daily inspections on the Phase I Vapor Recovery System to determine if components of the system are in compliance with the control requirements of this permit as well as, but not limited to, the following: *[AQR 12.5.2.6(d)]*

    a. The condition of the spill bucket and presence of fuel or debris;

    b. The condition of the vapor cap and cap seal;

    c. The condition of the vapor adapter and adapter seal;

    d. The condition of the fill cap and cap seal;

    e. The tightness of the fill adapter (non EVR systems);

    f. The condition of the fill tube seal; and

    g. The condition of the P/V valve.

PABCO Emergency Fire Pumps

17. The Permittee shall operate each emergency fire pump (EUs: U04 and U05) with a nonresettable hour meter and monitor the duration of operation for testing, maintenance and non-emergency operation, and separately for emergencies. The nature of the emergency leading to emergency operation shall be documented. *[AQR 12.5.2.6(d)]*

18. The Permittee shall monitor the sulfur content and cetane index or aromatic content of the fuel burned in the emergency fire pumps engines by retaining a copy of vendor fuel specifications (EUs: U04 and U05). *[AQR 12.5.2.6(d)]*

19. The Permittee shall ensure compliance with the provisions of 40 CFR 60, Subpart IIII contained within this document through the keeping of records of engine manufacturer data indicating compliance with the standards (EUs: U04 and U05). *[40 CFR 60, Subpart IIII*

(60.4211(b)) and AQR 12.5.2.6(d)]

20. The Permittee shall operate the water pump (EU: U06) with a non-resettable hour meter and monitor its duration of operation in hours. *[AQR 12.5.2.6(d)]*

21. The Permittee shall monitor the sulfur content of the fuel burned in the water pump engine by retaining a copy of the vendor fuel specifications (EU: U06). *[AQR 12.5.2.6(d)]*

PABCO Compliance Assurance Monitoring (CAM)

22. 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 Requirements

Division	Group	ID	Description	Control Method
PABCO	2	B36	Rotary Dryer #2	Baghouse
	4	D11	Impeller Mill #1	Baghouse
		D14	Impeller Mill #2	Baghouse
		D17	Impeller Mill #3	Baghouse
		D20	Impeller Mill #4	Baghouse
		D23	Impeller Mill #5	Baghouse
		D26	Impeller Mill #6	Baghouse
		D29	Impeller Mill #7	Baghouse
		D32	Impeller Mill #8	Baghouse
		D35	Impeller Mill #9	Baghouse
	5	E37	End Saw	Baghouse
	7	G3	Impeller Mill #10	Baghouse
		G8	Impeller Mill #11	Baghouse
		G14	Impeller Mill #12	Baghouse
		G19	Impeller Mill #13	Baghouse
	8	H24	End Saw	Baghouse
		H30	End Saw	Baghouse

a. The Permittee shall monitor the pressure differential (Δp) between inlet and outlet of the baghouses listed in Table III-C-1 on a daily basis.

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 (Δp)	Opacity
Measurement Approach	The Δp 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.

CAM Element	Indicator 1	Indicator 2
Indicator Range	The indicator range for Δp is 1-9 inches of water. An excursion is defined as any measured Δp outside the range of 1-9 inches of water. The Quality Improvement Plan (QIP) threshold is six (6) excursions in each semi-annual reporting period.	The indicator for visible emissions Is the opacity limit specified in Section III-B-1 of this permit. Excursions of opacity above the allowable opacity limit shall trigger an investigation, corrective actions and a reporting requirement. The QIP threshold is six (6) 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 Δp 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 Δp measures shall be made.	Daily visual checks shall be made.
Data Collection Procedures	Differential pressure (Δp) 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.

Sandia Mineral Processing

23. The Permittee shall monitor the throughput or hours of operation of all emission units on a monthly basis to demonstrate compliance with the operational limits in this permit. *[AQR 12.5.2.6(d)]*

24. The Permittee shall inspect the water spray system daily and investi*gate and correct* any problems before resuming operations. *[AQR 12.5.2.6(d)]*

25. The Permittee shall determine silt content from all unpaved haul roads at least once semi-annually when in operation in accordance with AQR 91.4.1.2. *[NSR ATC/OP Modification 6, Revision 1, Condition III-E-11 (08/12/04)]*

Sandia Engine

26. The Permittee shall operate the diesel (EU: U03) with a nonresettable hour meter and monitor its duration of operation in hours. *[AQR 12.5.2.6(d)]*

27. The Permittee shall monitor the sulfur content and cetane index or aromatic content of the fuel burned in the diesel generator engine by retaining a copy of the vendor fuel specifications (EU: U03). *[AQR 12.5.2.6(d)]*

D. Testing

1. Performance testing is subject to 40 CFR 60, Subpart A, OOO, UUU and IIII, 40 CFR 63, Subparts A, ZZZZ and CCCCCC. Performance testing shall be the instrument for determining initial and subsequent compliance with the emission limitations set forth in Tables III-B-3 and III-B-4 of this permit. *[AQR 12.5.2.6(d)]*

PABCO

2. The Permittee shall conduct performance testing for NO_X and CO on the exhaust gas from NCA #2 according to the following conditions: *[AQR 12.5.2.6(d)]*

a. The Permittee shall conduct performance testing according to the applicable methods specified in Table III-D-1; and

b. Subsequent performance testing shall be conducted on or before every five year anniversary date of the previous performance test.

3. The Permittee shall conduct performance testing for NO_X, CO and VOC emission rates from the Coe and Flakt board dryers (EUs: E39, H26 and H32) according to the following conditions: *[NSR ATC/OP Modification 7, Revision 1, Condition III-E-1 and III-E-4 (05/25/05) and AQR 12.5.2.6(d)]*

   a. The Permittee shall conduct performance testing at each zone stack outlet.

   b. The Permittee shall conduct performance testing according to the applicable methods specified in Table III-D-1.

   c. Subsequent performance testing shall be conducted on or before every five year anniversary date of the previous performance test.

4. The Permittee shall conduct performance testing for NO_X and CO emission rates from the rotary dryer (EU: B36) according to the following conditions: *[NSR ATC/OP Modification 7, Condition III-E-1 and III-E-4 (05/25/05) and AQR 12.5.2.6(d)]*

   a. The Permittee shall conduct performance testing at each stack outlet.

   b. The Permittee shall conduct performance testing according to the applicable methods specified in Table III-D-1.

   c. Subsequent performance testing shall be conducted on or before every five year anniversary date of the previous performance test.

Table III-D-1: Performance Testing Methods for Combustion Emissions

Pollutant	Test Method
NO_X	EPA Method 7E
CO	EPA Method 10
VOC	EPA Method 25a
Stack Gas Parameters	EPA Methods 1, 2, 3 or 4

5. The Permittee shall conduct performance testing for opacity standards on all 40 CFR 60, Subpart OOO and Subpart UUU applicable emission units (EUs: B1 – B5, B7, S02, B11, B13 – B18, B21 – B23, B37 – B39, S07, B40, B42, B41, S13, B44, B45, B25 – B27, B29, B30, B34, B35, B31 – B33, S27, B36, C1 – C4, D1 – D11, D13, D14, D16 – D20, D22, D23, D25 - D29, D31, D32, D34, D35 – D44, E1 – E35, E37, G1 – G22, H1 – H8, H10 – H20, H22, H24, H27 - H30 and H33 – H35) according to the following conditions: *[AQR 12.5.2.6(d)]*

   a. The Permittee is required to comply with the performance testing requirements 40 CFR 60, Subpart OOO or 40 CFR 60, Subpart UUU, as applicable.

   b. The Permittee shall conduct performance testing according to the applicable method(s) specified in Table III-D-2.

   c. The Permittee shall conduct subsequent performance testing for opacity upon written notification from the Control Officer.

6. The Permittee shall conduct performance testing for particulate matter concentration and opacity on all 40 CFR 60 Subpart OOO and Subpart UUU applicable emission units controlled by a capture system (EUs: B31, B35, B36, D1 – D4, D7 – D11, D13, D14, D16 – D20, D22, D23, D25 - D29, D31, D32, D34, D35, D43,D44, E1 – E35, E37, G1 – G22, H1 –

H8, H10 – H20, H22, H24, H27 – H30 and H33 – H35) according to the following conditions: *[NSR ATC/OP Modification 6, Revision 1, Condition III-E-4 and III-E-5 (08/12/04) and AQR 12.5.2.6(d)]*

a. The Permittee is required to comply with the performance testing requirements of 40 CFR 60, Subpart OOO or 40 CFR 60, Subpart UUU, as applicable.

b. The Permittee shall conduct performance testing at the stack exhaust points of the capture and control system.

c. The Permittee shall conduct performance testing according to the applicable methods specified in Table III-D-2.

d. The Permittee shall conduct subsequent performance testing for particulate matter concentration on or before every five year anniversary date of the previous performance test. Subsequent performance testing shall be performed on baghouses 1 through 14, and 16 through 25, as delineated by Table III-B-6 of this permit.

e. The Permittee may petition the Control Officer to waive the requirement(s) to performance test multiple exhaust stack points from emission units/control devices that are made by the same manufacturer with the same model number, rated capacity and operating specifications. To be considered for approval, the Permittee must support that each emission unit and control device in the grouping was operated and maintained similarly prior to the scheduled performance test. Such requests shall be submitted with the performance testing protocol for approval by the Control Officer prior to conducting the performance test(s).

f. The Permittee shall conduct subsequent performance testing for opacity upon written notification from the Control Officer.

Table III-D-2: Performance Testing Methods for Particulate Matter

Pollutant	Test Method
Opacity	EPA Method 9
PM	EPA Method 5
Stack Gas Parameters	EPA Methods 1, 2, 3 or 3a, 4

7. The Permittee shall conduct Phase I vapor recovery tests in accordance with the California Air Resources Board (CARB)-approved vapor recovery test procedures (as revised) listed in Table III-D-3, as applicable. *[AQR 12.5.2.6(d) and 40 CFR 63.11120]*

8. The Permittee shall schedule each vapor recovery test with the Stationary Sources Compliance Supervisor at least 30 calendar days prior to the anticipated date of testing, unless otherwise specified in this permit. *[AQR 12.5.2.6(d)]*

9. Any prior approved scheduled vapor recovery system test cannot be canceled and/or rescheduled except with the prior approval of the Control Officer, Compliance Division. *[AQR 12.5.2.6(d)]*

10. The Permittee shall conduct initial Phase I Vapor Recovery System Testing on affected GDO equipment according to the following requirements: *[AQR 12.5.2.6(d)]*

    a. The Permittee shall conduct and pass an initial vapor recovery system test within 30 days of startup of new equipment, or when the integrity of the vapor recovery system has been affected by a modification or repair. Routine maintenance, including the replacement of hoses, nozzles and ECD, does not require an initial vapor recovery

system test.

b. Each initial vapor recovery system test must be witnessed by an inspector from the Air Quality.

11. The Permittee shall conduct and pass subsequent Phase I vapor recovery system tests on or before the anniversary date of the initial performance test at the frequency specified in Table III-D-3. *[AQR 12.5.2.6(d)]*

12. The Permittee shall submit a Gasoline Dispensing Operation Certification of Vapor Recovery System Test Results Submittal Form (available on Air Quality's website) to the Control Officer after each vapor recovery system test. The submittal form shall meet the following conditions: *[AQR 12.5.2.6(d)]*

    a. The test results shall be complete and signed by the Responsible Official for the equipment being tested. The Responsible Official must certify that the test results are true, accurate and complete.

    b. Test results shall be submitted by regular mail, fax, or in person.

    c. The test report shall be submitted by the source or by the Permittee's testing company or consultant, but the source is the responsible party and must ensure that the test report is delivered to Air Quality within the above timeline.

13. If the source passes the vapor recovery system test, the Permittee shall submit the test results report to the Control Officer within 30 days from the date of the vapor recovery system test. *[AQR 12.5.2.6(d)]*

14. If the source fails a vapor recovery system test, the Permittee shall comply with the following:

    a. The Permittee shall notify the Control Officer within 24 hours of equipment test failure, make all necessary repairs and re-test the affected facility. After re-testing, the Permittee shall notify the Control Officer to advise of the re-test and submit test results within 15 days of completion.

    b. The process of re-testing shall continue until the affected facility successfully passes all aspects of the vapor recovery system test.

    c. The Control Officer may require the Permittee to conduct any test after a failed vapor recovery system test in the presence of an Air Quality representative. *[AQR 12.5.2.6(d)]*

Table III-D-3: Vapor Recovery System Testing Procedures and Schedules

Type of Vapor Recovery System	Test Procedure	Frequency
Phase I Vapor Balance System	Pressure Decay/Leak test: TP201.3A (as revised for AST)	Initial and every three years thereafter
	Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves: CARB Procedure TP-201.1E (as revised)	

AST = Aboveground Storage Tank

Sandia

15. The Permittee shall conduct performance testing for opacity standards on all 40 CFR 60, Subpart OOO applicable emission units (EUs: S01, S10 – S12, S14, S15 and S17 – S25) according to the following conditions: *[AQR 12.5.2.6(d)]*

    a. The Permittee is required to comply with the performance testing requirements of 40 CFR 60, Subpart OOO.

b. The Permittee shall conduct performance testing according to the applicable method specified in Table III-D-2.

c. The Permittee shall conduct subsequent performance testing for opacity upon written notification from the Control Officer.

16. The Permittee shall conduct performance testing on the diesel engine (EU: U03) according to the following conditions: *[40 CFR 63, Subpart ZZZZ (63.6612(a))]*

a. The Permittee is required to comply with the performance testing requirements of 40 CFR 63, Subpart ZZZZ.

b. Initial performance tests on the diesel engine shall be conducted within 180 days after May 3, 2013.

E. Record Keeping

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

General

a. Deviations from permit requirements not resulting in excess emissions;

PABCO Mineral Processing and Wallboard Manufacturing/Recycling

b. Monthly and consecutive 12-month throughput of materials processed by equipment or processes with a throughput limit;

c. Monthly and consecutive 12-month amount of Vehicle Miles Traveled on the Paved and Unpaved Haul Roads (EUs: A2, E38, E43, H25 and H31);

d. Monthly total area of stockpiles (EUs: A3, B12 and B28);

e. Monthly and consecutive 12-months amounts of blasting agent used and totals of surface area blasted (EU: A5);

PABCO Gasoline Dispensing

f. Monthly and consecutive 12-months combined throughput of gasoline;

PABCO Fire & Water Pumps

g. Date and duration of operation of the diesel emergency fire pump for testing, maintenance and non-emergency use (EUs: U04 and U05);

h. Date and duration of operation of the diesel emergency fire pump for emergency use, including documentations justifying use during the emergency (EUs: U04 and U05);

i. Monthly and consecutive 12-month hours of operation of the diesel water pump (EU: U06);

Sandia Mineral Processing

j. Monthly and consecutive 12-month throughput of materials processed by equipment with a throughput limit;

k. Monthly and consecutive 12-month hours of operation for each emission unit;

l. Monthly and consecutive 12-month amount of Vehicle Miles Traveled on the

Unpaved Haul Road (EU: T02); and

m. Monthly total area of stockpiles (EU: T01); and

Sandia Water Pump

n. Monthly and consecutive 12-month hours of operation of the diesel water pump (EU: U03).

2. The Permittee shall maintain records on site that include at a minimum: *[AQR 12.5.2.6(d)]*

a. Deviations from permit requirements resulting in excess emissions (reported as required by Section II-D of this permit); and

b. Dates and time with visible emissions checks are taken and the steps taken to make any necessary corrections to bring opacity into compliance.

PABCO Mineral Processing and Wallboard Manufacturing/Recycling

c. Daily moisture content reports (when raw gypsum operation is operated);

d. Daily baghouse pressure drop readings;

e. Monthly baghouse inspection and maintenance reports;

f. Instances of the required daily opacity readings on baghouses, binvents and/or stack discharges where visible emissions were observed and description of any action taken;

g. Silt content and silt loading results; and

h. Performance test results (reported as required by section iii-e of this permit).

PABCO Cooling Towers

i. Monthly TDS test results of the cooling tower circulation water;

PABCO Gasoline Dispensing

j. Equipment inspections;

k. Maintenance on distribution and control (i.e. Phase i) equipment, including a general description of location and parts;

l. Date and time storage and distribution equipment was taken out-of-service;

m. Date of repair or replacement of storage and distribution equipment/parts;

n. Vapor recovery system testing results, if applicable;

PABCO Fire & Water Pumps

o. Sulfur content and cetane index or aromatic content of diesel fuel used in the diesel emergency fire pumps engines (EUs: U04 and U05);

p. Manufacturer's engine data showing compliance with the emission standards for the diesel emergency fire pumps (EUs: U04 and U05);

q. Sulfur content of diesel fuel used in the diesel water pump engines (EU: U06);

r. Oil and filter change dates and corresponding hour on the hour meter, inspection and replacement dates for air cleaners, hoses and belts and other emission related repairs and maintenance performed on the diesel water pump engine (EU: U06);

Sandia Mineral Processing

s. Daily water spray inspection reports (applies only when the plant is in operation);

t. Silt content results;

u. Performance test results (reported as required by section iii-e of this permit);

Sandia Diesel Water Pump

v. Sulfur content and cetane index or aromatic content of diesel fuel used in the diesel water pump engine (EU: U03);

w. Beginning May 3, 2013, manufacturer's recommended maintenance procedures and maintenance performed on the closed crankcase ventilation system or open crankcase filtration system of the diesel engine (EU: U03); and

x. Performance testing results (reported as required by Section III-E of this permit).

3. 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. Records and data required by this OP to be maintained by Permittee may be audited at any time by a third party selected by the Control Officer. *[AQR 4.4 and AQR 12.5.2.8]*

5. Should this stationary source, as defined in 40 CFR 68.3, become subject to the accidental release prevention regulation in Part 68, then the Permittee shall submit an RMP by the date specified in Section 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 CFR 70 or 71. *[AQR 12.5.2.6(d)]*

6. 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 was taken or data was entered and shall be made available to Air Quality upon request. *[AQR 12.5.2.6(d)]*

7. The Control Officer reserves the right to require additional requirements concerning records and record keeping for this source. *[AQR 12.5.2.6(d)]*

F. Reporting

1. The Permittee shall comply with all applicable notifications and reporting requirements of 40 CFR 60 Subparts A, OOO, UUU and IIII and 40 CFR 63 Subparts ZZZZ and CCCCCC. *[AQR 12.5.2.6(d)]*

2. The Permittee shall submit semi-annual reports to the Control Officer in accordance with the following requirements: *[AQR 12.5.2.6(d)]*

   a. The report shall include a semi-annual summary of each item listed in Section III-E-1.

   b. The report shall include semi-annual summaries of any permit deviations, their probable cause and corrective or preventative actions taken.

   c. The report shall be submitted to Air Quality within 30 calendar days of the due date.

3. Regardless of the date of issuance of this Operating Permit, the source shall comply with the schedule for report submissions outlined in Table III-F-1:

Table III-F-1: Required Submission Dates

Required Report	Applicable Period	Due Date[1]
Semi-annual Report for 1st Six-Month Period	January, February, March, April, May, June	July 30 each year
Semi-annual Report for 2nd 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 Emission	As Required	Within 24 hours of the Permittee learns of the event
Written Report of Malfunctions, Startup, Shutdowns or Deviations with Excess Emission	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.

4. If a report's due date fall on a Saturday, Sunday or a Federal or Nevada State holiday, the Permittee shall submit the report no later than the next regularly scheduled business day. *[AQR 4.4 and AQR 12.5.2.6(d)]*

5. The Control Officer reserves the right to require additional reports and reporting to verify compliance with permit emission limits, applicable permit requirements, and requirements of applicable federal regulations. *[AQR 4.4 and AQR 12.5.2.6(d)]*

G. Mitigation

1. The source has no federal offset requirements. *[AQR 59.1.1]*

IV. 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 CFC or 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]*

ATTACHMENT 1
APPLICABLE REGULATIONS

REQUIREMENTS SPECIFICALLY IDENTIFIED AS APPLICABLE:

1. NRS, Chapter 445B.
2. Applicable AQR Sections:

Citation	Title
AQR Section 0	Definitions
AQR Section 4	Control Officer
AQR Section 5	Interference with Control Officer
AQR Section 8	Persons Liable for Penalties – Punishment: Defense
AQR Section 9	Civil Penalties
AQR Section 10	Compliance Schedule
AQR Section 11	Ambient Air Quality Standards
AQR Section 12.5	Part 70 Operating Permit Requirements
AQR Section 13.2(b)(85) AQR Section 13.2(b)(109)	National Emission Standards for Hazardous Air Pollutants: NESHAP – Subpart ZZZZ: Stationary Reciprocating Internal Combustion Engines Subpart CCCCCC: Gasoline Dispensing Facilities
AQR Section 14.1(b)74 AQR Section 14.1(b)80 AQR Section 14.1(b)90	Standards of Performance for New Stationary Sources (NSPS) – Subpart OOO: Nonmetallic Mineral Processing Plants Standards of Performance for New Stationary Sources (NSPS) – Subpart UUU: Calciners and Dryers in Mineral Industries Standards of Performance for New Stationary Sources (NSPS) – Subpart IIII: Stationary Compression Ignition Internal Combustion Engines
AQR Section 18	Permit and Technical Service Fees
AQR Section 25	Affirmative Defense for Excess Emissions due to Malfunctions, Startup and Shutdown
AQR Section 26	Emissions of Visible Air Contaminants
AQR Section 28	Fuel Burning Equipment
AQR Section 29	Sulfur Contents of Fuel Oil
AQR Section 40	Prohibition of Nuisance Conditions
AQR Section 41	Fugitive Dust
AQR Section 42	Open Burning
AQR Section 43	Odors in the Ambient Air
AQR Section 60	Evaporation and Leakage
AQR Section 70	Emergency Procedures
AQR Section 80	Circumvention

3. CAAA, Authority: 42 U.S.C. 7401, et seq.
4. Applicable 40 CFR Subsections:

Citation	Title
40 CFR 52.21	Prevention of Significant Deterioration (PSD)
40 CFR 52.1470	SIP Rules

Citation	Title
40 CFR 60	Appendix A, Method 9 or equivalent, (Opacity)
40 CFR 60, Subpart A	Standards of Performance for New Stationary Sources (NSPS) – General Provisions
40 CFR 60, Subpart OOO	Standards of Performance for New Stationary Sources (NSPS) – Nonmetallic Mineral Processing Plants
40 CFR 60, Subpart UUU	Standards of Performance for New Stationary Sources (NSPS) - Calciners and Dryers in Mineral Industries
40 CFR 60, Subpart IIII	Standards of Performance for New Stationary Sources (NSPS) – Compression Ignition Internal Combustion Engines
40 CFR 63, Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines
40 CFR 63, Subpart CCCCCC	National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities
40 CFR 68	Risk Management Plan
40 CFR 70	Federally Mandated Operating Permits
40 CFR 82	Protection of Stratospheric Ozone