

BPB MANUFACTURING, INC.
GYPSUM WALLBOARD MANUFACTURING PLANT
FACILITY ID NO.: 0310202
DUVAL COUNTY
TITLE V AIR OPERATION PERMIT RENEWAL
FINAL PERMIT NO.: 0310202-009-AV
RENEWAL TO TITLE V AIR OPERATION PERMIT NO.: 0310202-007-AV

PERMITTING & COMPLIANCE AUTHORITY:
ENVIRONMENTAL RESOURCE MANAGEMENT DEPARTMENT
ENVIRONMENTAL QUALITY DIVISION
117 WEST DUVAL STREET, SUITE 225
JACKSONVILLE, FL 32202
TELEPHONE: (904) 630-4900
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Title V Air Operation Permit Renewal
FINAL Title V Operation Permit No.: 0310202-009-AV

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<u>Emission Unit ID No.</u>	<u>Brief Description</u>
001	Gypsum Ore Crushing System & Conveyors
003	Landplaster Production System
004	Board Plant Mixing System
005	Wallboard End Trim System
007	Calcining Kettle Burner Nos. 1, 2, and 3
008	Wallboard Dryer
016	BPG/Reclaim Drying and Milling System
017	Stucco Production System
018	BPG/Reclaim Handling and Storage System
019	Gypsum Rock Unloading and Storage

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Permittee:

BPB Manufacturing, Inc.
9225 Dames Point Road
Jacksonville, FL 32226

Final Permit Renewal No.: 0310202-009-AV**Facility ID No.:** 0310202**SIC No.:** 32**Project:** Title V Air Operation Permit Renewal
Gypsum Wallboard Manufacturing Plant

This permit is for the purpose of renewing Title V Operation Permit No. 0310202-007-AV for BPB Manufacturing, Inc. gypsum wallboard manufacturing plant. This facility is located at 9225 Dames Point Road, Jacksonville, Duval County, FL.; UTM Coordinates: Zone 17, 446.430 km East and 3362.370 km North; Latitude: 30° 23' 40" North and Longitude: 81° 33' 30" West.

Statement of Basis: This Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (FS), and Florida Administrative Code (FAC), Chapters 62-4, 62-210, and 62-213. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:

Appendix CAM

Appendix I-1, List of Insignificant Emission Units and/or Activities

APPENDIX TV-4 TITLE V CONDITIONS

APPENDIX SS-1, STACK SAMPLING FACILITIES

Effective Date:**May 12, 2005****Renewal Application Due Date:****November 1, 2009****Expiration Date:****April 30, 2010**

Environmental Resource Management Department
Environmental Quality Division

Ebenezer Gujjarlapudi, P.E.
Chief

EG/JW

Section I. Facility Information

Subsection A. Facility Description

This facility consists of a manufacturing plant for the production of gypsum wallboard. Gypsum ore is received at the plant by ship, barge, or truck, and unloaded into stockpiles. Gypsum ore is then conveyed to the crushing (hammermill) and conveying system. Crushed ore is conveyed to the landplaster system where the crushed gypsum is further ground in the Raymond mills and dried in the flash dryers. The finely ground and dried gypsum (known as landplaster) is conveyed to the stucco production area where the landplaster is introduced into calcining kettles which by indirect heating drive off the chemically bound water from the landplaster which turns it into a product called stucco. Stucco is then dry mixed with other additives and introduced to the pin mixer where water is added to the mix. The liquid stucco mix is then introduced between two sheets of paper in the wallboard forming machine to form wallboard. The wet wallboard is dried on the conveying line, cut, end-trimmed and stacked for distribution. Regulated emission units (EU) include the Gypsum Rock Unloading and Storage, Gypsum Ore Crushing System and Conveying, Landplaster Production System, Calcining Kettle Burner Nos. 1, 2, and 3, Stucco Production System, Board Plant Mixing System, Wallboard Line including the Wallboard Dryer, Wallboard End Trim System, the BPG/Reclaim Drying and Milling System, and the BPG/Reclaim Handling and Storage System.

Also, included in this permit are miscellaneous insignificant emission units and/or activities.

Based upon the initial Title V permit application received June 14, 1996, and the renewal application received December 2, 2003 this facility is not a major source of Hazardous Air Pollutants [HAP(s)].

Emission Unit Nos. 003, 004, 005, and 017 are subject to Compliance Assurance Monitoring (CAM) requirements.

Subsection B. Summary of Emission Unit (EU) ID Nos. and Brief Descriptions

<u>EU ID No.</u>	<u>Brief Description</u>
001	Gypsum Ore Crushing System & Conveyors
003	Landplaster Production system
004	Board Plant Mixing System
005	Wallboard End Trim System
007	Calcining Kettle Burner Nos. 1, 2, and 3
008	Wallboard Dryer
016	BPG/Reclaim Drying and Milling System
017	Stucco Production System
018	BPG/Reclaim Handling and Storage System
019	Gypsum Rock Unloading and Storage

Note: Please reference the Permit No., Facility ID No., and appropriate Emission Unit ID No(s)., on all correspondence, test report submittal, applications, etc.

The documents listed below are not a part of this permit, however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Table 1-1, Summary of Air Pollutant Standards and Terms
Table 2-1, Summary of Compliance Requirements
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History
Appendix LR-1, Local Rule Index

These documents are on file with the permitting authority:

Title V Permit Renewal Application received December 2, 2003
Additional information requests dated January 27, 2004 and June 17, 2004
Additional information received May 17, 2004, June 24, 2004, July 1, 16, and 30, 2004, and August 2 and 4, 2004, and November 18, 2004

Section II. Facility Wide Conditions

The following conditions apply facility wide:

1. Appendix TV-4, Title V Conditions, is a part of this permit.

Permitting Note: Appendix TV-4, Title V Conditions, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided one copy when requested, or otherwise appropriate.

2. Prevention of Accidental Releases (Section 112(r) of CAA).

- a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center
Post Office Box 3346
Merrifield, VA 22116-3346
Telephone: (703) 816-4434

and,

- b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), FAC.

[40 CFR 68.]

3. Insignificant Emission Units and/or Activities Appendix I-1, List of Insignificant Emission Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), FAC, Rule 62-213.430(6), FAC, and Rule 62-4.040(1)(b), FAC; Rule 2.501, JEPB, and Rule 2.1301, JEPB]

4. Unregulated Emission Units and/or Activities Appendix U-1 List of Unregulated Emission Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), FAC, and Rule 2.501, JEPB]

5. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions.

The permittee shall allow no person to store, pump, handle, process, load, unload, or use any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
[Rule 62-296.320(1)(a), and Rule 2.1001, JEPB]

6. General Particulate Emission Limiting Standards. General Visible Emissions Standard.

Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Reference Method 9, shall be the compliance method. Testing shall be required, upon request from the Department.

[Rule 62-296.320(4)(b)1., FAC, Chapter 62-297, FAC, Rule 2.1001, JEPB, and Rule 2.1101, JEPB]

7. Permittee shall notify the Department fifteen (15) days prior to Emission Unit (EU) testing.

[Rule 62-297.310(7)(a)(9), FAC, and Rule 2.1101, JEPB]

8. Copies of the test report(s) shall be submitted to the Department within forty-five (45) days of completion of testing.

[Rule 62-297.310(8)(b), FAC, and Rule 2.1101, JEPB]

9. Testing of emissions shall be conducted with the EU operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then the EUs may be tested at less than capacity; in this case subsequent EU operation is limited to 110 percent of the test load until a new test is conducted. Once the EU is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit.

[Rule 62-297.310(2), FAC, and Rule 2.1101, JEPB]

10. Control equipment shall be provided with a method of access that is safe and readily accessible.

[Rule 62-4, FAC, and Rule 2.1301, JEPB]

11. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.

[Rule 62-213.440, FAC, and Rule 2.501, JEPB]

12. The **Annual Statement of Compliance** required by 40 CFR 70.6, Rule 62-213.440(3), FAC and Rule 2.501, JEPB shall be due on or before March 1 each year covering the period for the previous calendar year. {See Condition No. 51, Appendix TV-4, Title V Conditions}

[40 CFR 70.6, Rule 62-213.440, FAC and Rule 2.501, JEPB]

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13. Excess emissions resulting from startup, shutdown, or malfunction of any emission unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Permitting Authority in accordance with Rule 62-4.130, FAC and Rule 2.1301, JEPB. A full written report on the malfunctions shall be submitted to the Permitting Authority in a quarterly report, if requested by the Permitting Authority.

[Rule 62-210.700, FAC, and Rule 2.201, JEPB]

14. The permittee shall submit all compliance related notifications and reports required of this permit to:

Environmental Resource Management Department
Environmental Quality Division
117 West Duval Street, Suite 225
Jacksonville, FL 32202
Telephone: 904/630-4900
Fax: 904/630-3638

15. Any reports, data, notification, certifications, and requests required to be sent to the United States Environmental Protection Agency, should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air and EPCRA Enforcement Branch
61 Forsyth Street
Atlanta, GA 30303
Telephone: 404/562-9155
Fax: 404/562-9163

16. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), FAC and Rule 2.1301, JEPB, any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, FAC, shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.

[Rule 62-213.420(4), FAC, and Rule 2.501, JEPB]

17. The permittee shall submit reports of any required monitoring at least every six (6) months. All instances

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of deviations from permit requirements must be clearly identified in such reports. The permittee shall report in accordance with the requirements of Rule 62-210.700(6), FAC, Rule 62-4.130, FAC, Rule 2.201, JEPB, and Rule 2.1301, JEPB, deviations from permit requirements, including those attributable to upset conditions as defined in the permit. Reports shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All reports shall be accompanied by a certification by a responsible official, pursuant to Rule 62-213.420(4), FAC, and Rule 2.501, JEPB. Unless otherwise specified in a **permit, rule, or order**; reports shall cover the period of January through June (report due on or before September 1) and July through December (report due on or before March 1).

[Rule 62-213.440(1)(b)3., FAC, and Rule 2.501, JEPB]

The following Facility-wide conditions are not federally enforceable**18. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited.**

The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants, which cause or contribute to an objectionable odor.

[Rule 62-296.320(2), FAC, and Rule 2.1001, JEPB]

19. The facility shall be subject to City of Jacksonville Ordinance Code, Title X, Chapter 360 [Environmental Regulation], Chapter 362 [Air and Water Pollution], Chapter 376 [Odor Control], and Jacksonville Environmental Protection Board (JEPB), Rule 1 [Final Rules with Respect to Organization, Procedure, and Practice].

20. The facility shall be subject to JEPB Rule 2, Part Nos. I through VII, and Part Nos. IX through XIII.

Section III. Emissions Unit(s) and Conditions**Emission Unit No. 001-Gypsum Ore Crushing System & Conveyors**

Emission Unit Description: Three Belt Conveyors (JBC 3, JBC 7A, and JBC 7), Hammermill Rock Crusher (Pennsylvania Impactor Model Number (M/N) C3-36, Serial Number 4086), and Two Rock Storage bins comprise this EU

Particulate Matter (PM) control device: Flex Kleen dust collector (baghouse) M/N UDC-80L. PM emissions are collected from the hammermill and conveyor Nos. JBC 7A and JBC 7

Emission Limitations and Standards

1. The process input weight of gypsum rock to the hammermill shall be limited to 75 tons per hour (TPH).
[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]
2. This EU shall be allowed to operate 5824 hours per year.
[Rule 62-210.300(2)(a), FAC, and Rule 2.301, JEPB]
3. PM emissions shall be limited to 5.00 pounds per hour (lbs/hr) and 21.90 tons per year (TPY), at the applicant's request.
[Rule 62-296.700(2)(b), FAC, and Rule 2.1001, JEPB]
4. Visible emissions (VE) shall be limited to five (5) percent (%) opacity.
[Rule 62-297.620(4), FAC and Rule 2.1101, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 5 (as described in 40 CFR 60, Appendix A), for the determination of the PM emissions rate.
6. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
7. VE testing shall be conducted annually from the date of November 1, 2003. VE testing shall be conducted for a minimum period of 30 minutes. PM testing shall be conducted 225 days prior to the permit expiration date.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

Record-keeping Requirements

8. The permittee shall record the operating hours of the hammermill rock crusher on a monthly basis and shall provide these records to the Department upon request.
[Rule 62-4.070, FAC, and Rule 2.1301, JEPB]

Emission Unit No. 003-Landplaster Production System

Emission Unit Description: Rock and Landplaster Screw conveyors, Raymond Mill Nos. 1 & 2, Process Cyclone Nos. 1 & 2, Flash Dryer, and Landplaster Bin Nos. 1, 2, & 3. [New Installed Equipment: Rock Landplaster screw conveyor Nos. GS-114, GS-115, and GS-117 installed to convey rock Landplaster from the process cyclones to the Landplaster bins. A Rock Landplaster flowmeter (GW-116) installed in series between GS-115 and GS-117. Screw conveyors GS-114, GS-115, and GS-117, and Flowmeter GW-116 are enclosed.]

Particulate Matter (PM) control device: Staclean dust collector (baghouse) M/N 320-10-AS336-6 (10)-CAP
PM emissions are collected from the two Raymond Mills, the two process cyclones, the flash dryer, the three Landplaster bins, and the Landplaster screw conveyor JSC1.

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.300(2)(a), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum heat input to the flash dryer shall be limited to 10 million Btu per hour.
[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]

3. The maximum process rate shall be limited as follows:

<u>Component</u>	<u>Tons Per Hour of Gypsum</u>
Raymond Mill Nos. 1 and 2	25 each
Cyclone Nos. 1 and 2	25 each
Landplaster Bin Nos. 1, 2, and 3	105 total
Conveyors	90 total

[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]

4. PM emissions shall be limited to 0.04 gr/dscf [4.54 lbs/hr and 19.90 TPY], at the applicant's request.
[Rule 62-296.700(2)(b), FAC, and Rule 2.1001, JEPB]
5. VE shall be limited to 5% opacity.
[Rule 62-297.620(4), FAC and Rule 2.1101, JEPB]

Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 5 (as described in 40 CFR 60, Appendix A), for the determination of the PM emissions rate concentration.
7. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
8. VE testing shall be conducted annually from the date of November 1, 2003. VE testing shall be conducted for a minimum period of 30 minutes. PM testing shall be conducted 225 days prior to the permit expiration date.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

Compliance Assurance Monitoring

9. This emission unit is subject to the CAM requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), FAC, and Rule 2.1101, JEPB.
[40 CFR 64; and, Rules 62-204.800 and 62-213.440(1)(b)1.a., FAC, and Rules 2.201 and 2.501, JEPB]

Emission Unit No. 004-Board Plant Mixing System

Emission Unit Description: Stucco Use Bin Nos. 15, 16, 17, & 18, Stucco Elevator JBE-6, Mixing Screw JSC 21, Scalping Screw JSC 20, Pin Mixer, Additive Use Bins (Sugar, Vermiculite, Starch, Fiberglass, & Potash), Screw Conveyors, Liquid Additives Storage and Handling, and Accelerator System

Particulate Matter (PM) control device: Flexkleen dust collector (baghouse) M/N UDC-104L. PM emissions are collected from the stucco use bin Nos. 15, 16, 17, & 18, stucco elevator, and the pin mixer.

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.300(2)(a), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum process rate shall be limited as follows:

<u>Component</u>	<u>Tons Per Hour</u>
Stucco Use Bin Nos. 15, 16, 17, & 18	38 each (stucco)
Stucco Elevator	40 (stucco)
Pin Mixer	68.14 (dry and liquid ingredients)

[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]

3. PM emissions shall be limited to 0.03 gr/dscf [2.93 lbs/hr and 12.83 TPY], at the applicant's request.
[Rule 62-296.700(2)(b), FAC, and Rule 2.1001, JEPB]
4. VE shall be limited to 5% opacity.
[Rule 62-297.620(4), FAC and Rule 2.1101, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 5 (as described in 40 CFR 60, Appendix A), for the determination of the PM emissions rate concentration.
6. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
7. VE testing shall be conducted annually from the date of November 1, 2003. VE testing shall be conducted for a minimum period of 30 minutes. PM testing shall be conducted 225 days prior to the permit expiration date.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

Compliance Assurance Monitoring

8. This emission unit is subject to the CAM requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), FAC, and Rule 2.1101, JEPB.
[40 CFR 64; and, Rules 62-204.800 and 62-213.440(1)(b)1.a., FAC, and Rules 2.201 and 2.501, JEPB]

Emission Unit No. 005-Wallboard End Trim system

Emission Unit Description: Wallboard end trim saws and wallboard conveying and handling equipment

Particulate Matter (PM) control device: Flexkleen dust collector (baghouse) M/N UDC-120L. PM emissions are collected from the wallboard end trim saws.

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.300(2)(a), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum process rate shall be limited to 48,000 square feet per hour and 420 million square feet

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per year of dry wallboard

[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]

3. PM emissions shall be limited to 3.84 lbs/hr and 16.82 TPY, at the applicant's request.
[Rule 62-296.700(2)(b), FAC, and Rule 2.1001, JEPB]
4. VE shall be limited to 5% opacity.
[Rule 62-297.620(4), FAC and Rule 2.1101, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 5 (as described in 40 CFR 60, Appendix A), for the determination of the PM emissions rate.
6. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
7. VE testing shall be conducted annually from the date of November 1, 2003. VE testing shall be conducted for a minimum period of 30 minutes. PM testing shall be conducted 225 days prior to the permit expiration date.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

Compliance Assurance Monitoring

8. This emission unit is subject to the CAM requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), FAC, and Rule 2.1101, JEPB.
[40 CFR 64; and, Rules 62-204.800 and 62-213.440(1)(b)1.a., FAC, and Rules 2.201 and 2.501, JEPB]

Emission Unit No. 007-Calcining Kettle Burner Nos. 1, 2, & 3

Emission Unit Description: Each individually vented burner fires natural gas to provide heat to the calcining kettles. Products of combustion do not come into contact with the process material.

Essential Potential to Emit (PTE) Parameters

1. The EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.300(2)(a), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum process rate to each kettle shall be limited to 14 million Btu per hour.
[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]
3. Natural gas shall be the only fuel fired in the calcining kettle burners.
[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]
4. VE shall be limited to less than 20% opacity.
[Rule 62-296.320(4)(b)1., FAC, and Rule 2.1001, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
6. VE testing shall be conducted 225 days prior to the permit expiration date. VE testing shall be conducted for a minimum period of 30 minutes.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

Emission Unit No. 008-Wallboard Dryer

Emission Unit Description: Four zone natural gas fired dryer. The four zones are collectively exhausted in a single stack. Products of combustion do come into contact with the process material.

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.300(2)(a), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum heat input to each wallboard drying zone shall be limited as follows:

<u>Burner</u>	<u>MMBtu</u>
Urquhart (Zone "A", west end)	25
Maxon (Zone 1, middle)	30
Hauck (Zone 2, middle)	15
Hauck (Zone 3, east end)	15

[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]

3. Natural gas shall be the only fuel fired in the wallboard dryer.
[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]
4. VE shall be limited to less than 20% opacity.
[Rule 62-296.320(4)(b)1., FAC, and Rule 2.1001, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
6. VE testing shall be conducted 225 days prior to the permit expiration date. VE testing shall be conducted for a minimum period of 30 minutes.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

Emission Unit No. 016-BPG/Reclaim Drying and Milling

Emission Unit Description: The EU 016 BPG/Reclaim Drying and Milling unit receives both Reclaim Gypsum and By-product gypsum from the EU 018 Reclaim/Handling and Storage System by means of Conveyor belt No.106.

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Conveyor No. 106 feeds BPG/Reclaim gypsum to the BPG/reclaim gypsum hopper. The hopper forwards the gypsum material to the impact mill for pulverizing. The mill uses a heater, which burns natural gas as fuel, to remove the free moisture from the BPG/Reclaim feed, conditioning the material into landplaster. The process transfers the dried material to a cyclone, where the landplaster separates from the conveying air stream into a landplaster screw conveyor JSC-2070. Baghouse M/N 120 RPT controls the particulate emissions from the mill circuit. The recovered dust from the baghouse also discharges to JSC-2070. The material in JSC-2070 is delivered to screw conveyor JSC-2080 for final delivery into the Reclaim Bin Elevator BE-2170.. The bucket elevator then transports landplaster to the Reclaim Landplaster Bin LP-2100.

Landplaster product from the LP-2100 bin discharges into a new Reclaim Weigh Belt Screw Feed Conveyor (JSC-2120) which discharges into a new Reclaim Landplaster Weigh Belt (GW-2140). The weigh belt discharges into the new Landplaster Scalping Screw (JSC-2200). The reclaim material contains paper from the off-specification wallboard rejected during normal plant operations. The scalping screw separates the paper from the reclaim material, sending such waste to Screw Conveyor JSC-2250 and subsequently to Screw Conveyor JSC-2300.

The landplaster separated in JSC-2200 drops out into a new Kason Separator (JSC- 2151) where the smaller-sized paper not scalped by JSC-2200 is removed from the reclaim landplaster. The Kason Separator sends the classified paper into JSC-2300. The scalped paper streams from JSC-2250 and JSC-2151 are transported via JSC-2300 Screw Conveyor to a new Ramjet Paper Compactor.

The landplaster classified by the Kason Separator drops into a tube screw conveyor JSC-2152 for delivery into Mixing Screw JSC-2130. The mixing screw commingles the reclaim landplaster with landplaster produced by the Raymond Mills. JSC-2130 feeds into Landplaster Bucket Elevator (BE-2090) which feeds into the JSC-1000 Screw Conveyor for delivery to the rest of the process.

Particulate Matter (PM) control device: The MAC Environmental dust collector (baghouse) M/N 96A VS36 receives displaced air and PM emissions from the Reclaim Landplaster Bin, the Reclaim Landplaster Bin Elevator, and the Landplaster Bucket Elevator for particulate control. The MAC Equipment Dust Collector (baghouse) M/N 120RPT 476 receives a portion of the hot conveying air returning from the process cyclone. The remaining portion of the hot air is recycled to the impact mill. The MAC baghouse returns the recovered dust from the mill circuit to Screw Conveyor SC-2070 for transfer to the Landplaster system.

40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants and 40 CFR 60, Subpart A, General Provisions shall apply to this emission unit.

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.300(2)(a), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum process rate to the gypsum drying and handling system shall be limited to 40 tons per hour of by-product and/or reclaim gypsum.
[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]
3. The maximum heat input to the dryer shall be limited to 30 million Btu per hour of natural gas.

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[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]

4. PM emissions from the baghouse [(BPG-209) MAC Equipment dust collector (baghouse) M/N 120 RPT476] shall be limited to 0.05 g/dscm (0.02 gr/dscf) [4.35 lbs/hr and 19.10 TPY]. PM emissions from the Reclaim Landplaster Baghouse [MAC Environmental dust collector (baghouse) M/N 96AVS36] shall be limited to 0.05 g/dscm (0.02 gr/dscf) [0.30 lbs/hr and 1.31 TPY].
[40 CFR 60.672(a)(1), Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]
5. VE from each baghouse shall be limited to 7% opacity.
[40 CFR 60.672(a)(2), Rule 62-204.800(7), FAC and Rule 2.201, JEPB]

Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 5 or 17 (as described in 40 CFR 60, Appendix A), for the determination of the PM emissions rate concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 degrees Centigrade (250 degrees Fahrenheit), to prevent water condensation on the filter.
[40 CFR 60.675(b)(1), Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]
7. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A), and the procedures in 40 CFR 60.11, for the visual determination of opacity.
[40 CFR 60.675(b)(1), Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]
8. VE testing shall be conducted annually from the date of November 1, 2003 on each baghouse. VE testing shall be conducted for a minimum period of 30 minutes. PM testing shall be conducted 225 days prior to the permit expiration date on each baghouse.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

Note: GS-104, GS-105, GS-109, GW-110, and GS-111 are enclosed. No VE or PM testing required.

Emission Unit No. 017-Stucco Production System

Emission Unit Description: Calcining Kettle Nos. 1, 2, & 3, Hot Pit Nos. 1, 2, & 3, Bucket Elevators JBE-1, 2, & 2A, Stucco Bin Nos. 6, 7, 8, 9, 10, 11, & 12, and Interconnecting Screw conveyors

Particulate Matter (PM) control device: Staclean dust collector (baghouse) M/N 320-10-AS PM emissions are collected from the calcining kettle Nos. 1, 2, & 3, hot pit Nos. 1, 2, & 3, bucket elevators JBE-1, 2, & 2A, and stucco bin Nos. 6, 7, 8, 9, 10, 11, & 12. Any PM emissions from the interconnecting screw conveyors are emitted inside the building as fugitive emissions.

40 CFR 60, Subpart UUU, Standards of Performance for Calciners and Dryers in Mineral Industries and 40 CFR 60, Subpart A, General Provisions shall apply to this emission unit.

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.300(2)(a), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum production rate (throughput) for this EU shall be limited to 38 tons per hour of dry stucco.
[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]
3. PM emissions shall be limited to 0.092 g/dscm (0.040 gr/dscf) [3.87 lbs/hr and 16.95 TPY].
[40 CFR 60.732(a), Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]
4. VE shall be limited to 10% opacity.
[40 CFR 60.732(b), Rule 62-204.800(7), FAC and Rule 2.201, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 5 (as described in 40 CFR 60, Appendix A), for the determination of the PM emissions rate concentration. The sampling time and volume for each test run shall be at least 2 hours and 1.70 dscm (60 dscf).
[40 CFR 60.736, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]
6. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A), and the procedures in 40 CFR 60.11, for the visual determination of opacity.
[40 CFR 60.736, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]
7. VE testing shall be conducted annually from the date of November 1, 2003. VE testing shall be conducted for a minimum period of 30 minutes. PM testing shall be conducted 225 days prior to the permit expiration date.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

Compliance Assurance Monitoring

8. This emission unit is subject to the CAM requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), FAC, and Rule 2.1101, JEPB.
[40 CFR 64; and, Rules 62-204.800 and 62-213.440(1)(b)1.a., FAC, and Rules 2.201 and 2.501, JEPB]

Emission Unit No. 018-BPG/Reclaim Handling and Storage System

Emission Unit Description: By-product gypsum (BPG) and Reclaim gypsum are received and stored for processing by EU 016. The maximum allowed combined throughput of BPG and Reclaim gypsum is 40 ton per hour.

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Reclaim gypsum is composed of off-specification wallboard, removed from the production line, which is crushed and milled for re-use. The quality specification of finished wallboard allows the use of a maximum percentage of reclaim material in formulation. The formulation limit is expressed as the mass equal to 15% of the gypsum rock used for production. This translates to a maximum of 11.25 ton per hour of Reclaim gypsum.

A front-end loader places the off-specification material into a feed hopper above the Norba Crusher. Referring to Diagram #1 (Appendix), the crusher mills the material and moves it to the side chute of the unit, where the millings transfer onto Conveyor GS-101 (partially uncovered). Conveyor GS-101 is a low-velocity conveyor that is used to inspect and remove metal objects and non-gypsum material (paper, plastic) from the millings prior to further processing. GS-101 delivers the millings to a Knife Hog, which further mills the Reclaim material. The Knife Hog transfers the milled material to Conveyor GS-103 (covered) for delivery to Conveyor GS-104 (covered).

BPG results from the scrubbing of sulfur-laden air streams from the power generation industry. BPB receives and stores by-product gypsum for use in its process. A front-end loader places BPG into the BPG Hopper, which feeds the material onto Conveyor GS-104. BPG has similar chemical and physical characteristics as gypsum derived from raw ore. The process uses BPG when the material is available and delivered to the plant.

Conveyor GS-104 (covered) carries both the Reclaim gypsum millings and the BPG to a transfer point for delivery to Conveyor GS-106 (covered). Conveyor GS-106 delivers the combined BPG/Reclaim material as feed for EU 016 BPG/Reclaim Drying and Milling Unit for further processing.

40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants and 40 CFR 60, Subpart A, General Provisions shall apply to this emission unit.

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.300(2)(a), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum process rate to the gypsum handling and storage system (receiving, storage and conveying equipment) shall be limited to 40 tons per hour of a combination of BPG and/or reclaim gypsum.
[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]
3. The maximum process feed rate of reclaim gypsum shall be limited to 11.25 tons per hour. The maximum process feed rate of reclaim gypsum and BPG (combined) shall not exceed 40 tons per hour.
[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]
4. The maximum process feed rate of BPG shall be limited to 40 tons per hour. The maximum process feed rate of reclaim gypsum and BPG (combined) shall not exceed 40 tons per hour.
[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]
5. VE from the BPG/Reclaim Storage and Handling System shall be limited to 10% opacity. It is noted that truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the 10% opacity requirement.
[40 CFR 60.672(b) & (d), Rule 62-204.800(7), FAC and Rule 2.201, JEPB]

6. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A), the procedures in 40 CFR 60.11, and the procedures in 40 CFR 60.675(c)(1, 2, & 3) for the visual determination of opacity.
[40 CFR 60.675, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]
7. VE testing shall be conducted annually from the date of November 1, 2003. VE testing shall be conducted for a minimum period of 30 minutes at each of the following emission points: For the Reclaim Handling portion: (a) Norba crusher onto conveyor GS-101; (b) Conveyor GS-101 feed into Knife Hog ; (c) Bottom of Knife Hog feed onto conveyor GS-103; (d) Conveyor GS-103 onto top of transfer point; (e) Bottom of transfer point onto No. 104 conveyor; (f) No. 104 conveyor transfer point onto No. 106 conveyor; For the BPG handling portion: (g) BPG hopper feed onto No. 104 conveyor
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

Emission Unit No. 019-Gypsum Rock Unloading, Conveying, and Storage system

Emission Unit Description: Gypsum rock is unloaded from ships onto conveyor nos. JBC-1 or the new conveyor directly. Gypsum rock from Mexico which contains more fines is unloaded into hopper nos. 1 and 2 located on the new conveyor. The new conveyor feeds onto the conveyor JBC-1 which feeds onto conveyor JBC-2 which feeds the gypsum rock onto the storage pile. Gypsum rock may also be delivered by truck and is unloaded directly onto the storage pile.

Particulate Matter (PM) control device: Water sprays are located at the drop points at each conveyor, hopper, and the snorkel chute at this emission unit. When gypsum rock from Mexico is loaded onto the storage pile, a snorkel chute is used to minimize fugitive dust emissions.

40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants and 40 CFR 60, Subpart A, General Provisions shall apply to this emission unit.

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.300(2)(a), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum process rate to the gypsum rock unloading, conveying, and storage system shall be limited to 1000 tons per hour of gypsum rock or 333 tons per hour of Mexican gypsum rock.
[Rule 62-210.200(203), FAC, and Rule 2.301, JEPB]
3. VE from hopper and conveyor transfer points shall be limited to 10% opacity.
[40 CFR 60.672(b), Rule 62-204.800(7), FAC and Rule 2.201, JEPB]

Test Methods and Procedures

4. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A), the procedures in 40 CFR 60.11, and the procedures in 40 CFR 60.675(c)(1, 2, & 3) for the visual determination of opacity.

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[40 CFR 60.675, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

5. VE testing shall be conducted annually from the date of November 1, 2003. VE testing shall be conducted for a minimum period of 30 minutes at each of the following emission points: (a) Hopper No. 1 feed onto New conveyor; (b) Hopper No. 2 feed onto New conveyor; (c) New conveyor transfer point to conveyor JBC-1; (d) JBC-1 conveyor transfer point to conveyor JBC-2.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

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