

Part 70 Operating Permit Amendment

Permit Amendment No.: **3275-127-0028-V-01-3** Effective Date: **March 30, 2005**

Facility Name: **G-P Gypsum Corporation - Brunswick**
1 Union Street
Brunswick, Georgia 31520-8688, Glynn County

Mailing Address: 1 Union Street
Brunswick, Georgia 31520-8688

Parent/Holding Company: G-P GYPSUM CORPORATION

Facility AIRS Number: 04-13-127-00028

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to and in effect under the Act, the Permittee described above is issued a construction permit and an amendment to the Part 70 Operating Permit for

Upgrading calcining Kettles #5 (E305) and #6 (E306). This permit amendment establishes practically enforceable emission limitations such that the facility will not be considered a major source under the 40 CFR 52.21 Prevention of Significant Deterioration. Also, conditions 3.2.2, 3.3.2, 4.2.5 & 6.2.9 have been added and conditions 3.3.1, 5.2.3, 5.2.6 & 6.1.7 have been amended.

This Permit Amendment is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit Amendment and Permit No. 3275-127-0028-V-01-0. Unless modified or revoked, this Permit Amendment expires upon issuance of the next Part 70 Permit for this source.

This Permit Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Applications No. TV-AMEND 15493, 15419 & 15853 dated July 12, 2004, May 17, 2004, and November 16, 2004, respectively; any other applications upon which this Permit Amendment or Permit No. 3275-127-0028-V-01-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **8** pages, which pages are a part of this Permit Amendment, and which hereby become part of Permit No. 3275-127-0028-V-01-0.

Director
Environmental Protection Division

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PART 3.0 REQUIREMENTS FOR EMISSION UNITS

Note: Except where an applicable requirement specifically states otherwise, the averaging times of any of the Emissions Limitations or Standards included in this permit are tied to or based on the run time(s) specified for the applicable reference test method(s) or procedures required for demonstrating compliance.

3.1.1 Modification of Emission Units

After the modifications triggering the applicability of 40 CFR Subpart UUU are performed, as described in Application No. TV-15493, and upon initial startup of Calcining Kettles #5 and #6 (E305 and E306), each of them shall be operated in compliance with the following requirements/standards:

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
E305	Calcining Kettle #5	40 CFR Subpart UUU	3.3.2 3.5.1, 5.2.5, 5.2.7	KBH5	Baghouse
E306	Calcining Kettle #6	40 CFR Subpart UUU	3.3.2 3.5.1, 5.2.5, 5.2.7	KBH6	Baghouse

* Generally applicable requirements contained in this permit may also apply to emission units listed above.

3.2 Equipment Emission Caps and Operating Limits

3.2.2 The Permittee shall not cause to be discharged into the atmosphere from:
[391-3-1-03(2)(c), 40 CFR 52.21 (PSD avoidance)]

- a. Electrostatic Precipitator ESP (Source code C201) gases which contain particulate matter in excess of 0.090 grains/dscf.
- b. Air pollution control devices controlling emissions from emission units not subject to 40 CFR 60 Subpart UUU or controlled by Electrostatic Precipitator ESP (C201), gases which contain particulate matter in excess of 0.020 grains/dscf.

3.3 Equipment Federal Rule Standards

3.3.1 The Permittee shall comply with the provisions of 40 CFR, Part 60, Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" for all subject equipment {for reference, see listing in Section 3.1}. In particular, for sources subject to Subpart OOO, the Permittee shall comply with the following for each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station:
[40 CFR 60.672 (a) thru (h)]

The Permittee shall not discharge or cause the discharge into the atmosphere, from each of the processing equipment subject to 40 CFR 60 Subpart OOO, any

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- a. Fugitive emissions greater than 10 percent opacity except for any crusher that does not use a capture system, which shall not exhibit fugitive emissions greater than 15 percent opacity. Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this condition.
 - b. Stack emissions which:
 - i. Contain particulate matter in excess of 0.050 g/dscm (0.022 grains/dscf) except for any storage bin utilizing a dedicated bin vent.
 - ii. Exhibit greater than 7 percent opacity, unless a wet scrubbing control device is used as the primary control device. Facilities using a wet scrubber must comply with the reporting provisions of 40 CFR 60.676 (c), (d), and (e).
 - c. Visible emissions from:
 - i. Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.
 - ii. Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.
- For processing equipment subject to the 40 CFR Part 60 Subpart OOO located inside a building, the Permittee shall comply with the above process equipment limits (a, b and c), or shall not discharge or cause the discharge into the atmosphere, any
- d. Visible fugitive emissions from the building.
 - e. Emissions from a powered building vent which:
 - i. Contain particulate matter in excess of 0.050 g/dscm (0.022 grains/dscf).
 - ii. Exhibit greater than 7 percent opacity.

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- 3.3.2 The Permittee shall comply with the applicable provisions of 40 CFR 60 Subpart UUU, "Standards of Performance for Calciners and Dryers in Mineral Industries," for all subject equipment {for reference, see listing in Section 3.1 above}. In particular, the Permittee shall not discharge or cause the discharge into the atmosphere, from each of the emission units subject to 40 CFR 60 Subpart UUU, any gases which:
[40 CFR 60.732(a) & (b)]
- a. Contain particulate matter in excess of 0.092 gram per dry standard cubic meter (g/dscm) [0.040 grain per dry standard cubic foot (gr/dscf)] for calciners and for calciners and dryers installed in series and in excess of 0.057 g/dscm (0.025 grains/dscf) for dryers.
 - b. Exhibits greater than 10 percent opacity, unless the emissions are discharged from an emission unit using a wet scrubbing control device. Facilities using a wet scrubbing control device shall comply with the monitoring provisions 40 CFR 60.734 (d) and recordkeeping and reporting requirements of 40 CFR 60.735(b) & (c).

PART 4.0 REQUIREMENTS FOR TESTING

4.2 Specific Testing Requirements

- 4.2.5 Subject to the detailed applicable provisions of 40 CFR 60 Subpart UUU, the Permittee shall conduct a performance test for particulate matter and opacity on Calcining Kettles #5 and #6 (E305 and E306) within 60 days after achieving the maximum production rate at which the emission units will be operated, but no later than 180 days after initial startup. The particulate matter testing shall have a sample time and volume for each run of at least two hours and 1.70 dscm.
[40 CFR 60.736(b)(1)]

PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)**5.2 Specific Monitoring Requirements**

5.2.3 The Permittee shall perform a check of visible emissions from all baghouses (except those exempt below from this condition) controlling emissions from sources listed in Section 3.1 of this permit and from sources added or replaced in accordance with this permit and Rule 391-3-1-.03. Baghouses controlling emissions from silos with dedicated bin vents, wet screening operations, bucket elevators, screw conveyors, bagging operations, and pneumatic conveyors are exempt from this condition. The check shall be conducted at least once for each day or portion of each day of operation using procedures a through d below except when scheduling, atmospheric conditions or sun positioning prevent any opportunity to perform the daily VE check. Any operational day when scheduling, atmospheric conditions or sun position prevent a daily reading shall be reported as monitor downtime in the report required by Condition 6.1.4. Scheduling prevents a daily VE check only when an emission unit is not operating during a regularly scheduled time period established for the daily VE checks.

[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

- a. Determine, in accordance with the procedures specified in paragraph d of this condition, if visible emissions are present at the discharge point to the atmosphere from each of the sources and record the results in the daily (VE) log. For sources that exhibit visible emissions, the Permittee shall comply with paragraph b or c of this condition.
- b. For each source determined to be emitting visible emissions, the Permittee shall determine whether the emissions equal or exceed the opacity action level using the procedure specified in paragraph d of this condition, except that the person performing the determination shall have received additional training acceptable to the Division to recognize the appropriate opacity level and the determination shall cover a period of three minutes. The opacity action level for each baghouse is 5 percent. The results shall be recorded in the daily (VE) log. For sources that exhibit visible emissions of greater than or equal to the opacity action level, the Permittee shall comply with paragraph c of this condition.
- c. For each source that requires action in accordance with paragraphs a or b of this condition, the Permittee shall determine the cause of the excursion and correct the problem in the most expedient manner possible. The Permittee shall note the cause of the excursion, the pressure drop, any other pertinent operating parameters, and the corrective action taken in the maintenance log.
- d. The person performing the determination shall stand at a distance of at least 15 feet which is sufficient to provide a clear view of the plume against a contrasting background with the sun in the 140° sector at his/her back. Consistent with this requirement, the determination shall be made from a position such that the line of vision is approximately perpendicular to the plume direction. Only one plume shall be in the line of sight at any time when multiple stacks are in proximity to each other.

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5.2.6 Once each day or portion of each day of operation, the Permittee shall inspect all emission points from the emission units listed in Table 3.1 for which no air pollution control device (APCD) is utilized and all emission points from emission units sources added or replaced in accordance with this permit and Rule 391-3-1-.03 for which no APCD is utilized. Any emission units monitored in accordance with conditions 5.2.1 or 5.2.3, Calcining Kettles #1-6 (Source Codes E313, E314, E315, E316, E317 and E318), and the Board Dryer (Source Code E508) are exempt from this condition. The inspection shall be conducted by performing a walk through of the facility and noting the occurrence of the following in a daily (VE) log:

- a. Any visible emissions. The visible emission check may be performed on the building containing the emission unit or directly on the emission unit.
- b. Any mechanical failure or malfunction that results in increased air emissions.

For each emission point noted with visible emissions, mechanical problems or malfunctions, the Permittee shall take corrective action in the most expedient manner possible and reinspect the unit within 24 hours to verify that no visible emissions exist. Failure to eliminate the visible emissions or to correct the mechanical failure or malfunction specified in a. and b. within 24 hours shall constitute an excursion.

[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS

6.1 General Record Keeping and Reporting Requirements

6.1.7 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition 6.1.4, the following excess emissions, exceedances, and excursions shall be reported:

[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

a. Excess emissions:

None required to be reported in accordance with condition 6.1.4.

b. Exceedances:

Any incident where fuel oil containing greater than 0.5 percent sulfur is burned.

c. Excursions:

- i. Any two consecutive required daily determinations of visible emissions requiring action by Condition 5.2.3 a. or b. from the same source.
- ii. Any visible emissions or mechanical failure or malfunction discovered by the walk through described in condition 5.2.6 that are not eliminated or corrected within 24 hours of first discovering the visible emissions or mechanical failure or malfunction.
- iii. Each occurrence when the temperature at the inlet of any baghouse specified in condition 5.2.5 exceeds the filter bag design temperature or equivalent filter bag design temperature recorded in accordance with condition 5.2.5.
- iv. Any two consecutive determinations of the ESP power level, calculated in accordance with the requirements of condition 5.2.2, that are less than seventy (70) percent of the average value established in accordance with condition 4.2.3.

6.2 Specific Record Keeping and Reporting Requirements

6.2.9 After the modifications triggering the applicability of 40 CFR Subpart UUU are performed, as described in Application No. TV-15493, the Permittee shall notify the Division, in writing, of the completion and initial startup dates of each of Calcining Kettles #5 and #6 (E305 and E306). Said notifications shall be submitted within fifteen days of the referenced completion and initial startup dates.

[40 CFR 60.7]

PART 7.0 OTHER SPECIFIC REQUIREMENTS

7.12 Revocation of Existing Permits and Amendments

The following Air Quality Permits and Amendments are subsumed by this permit and are hereby revoked:

Air Quality Permit Number(s)	Dates of Original Permit Issuance or Amendment
3275-127-0028-V-01-2	January 18, 2005