· P 274 007 595

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Reverse)

0-794	Sent to Mr. R. G. Moore, Go	old Bond
≠ U.S.G.P.O. 1985-480-794		Bldg. Prod.
P.O. 1	P.O. State and ZIP Code Tampa, FL 33616	
U.S.G.	Postage	S
*	Certified Fee	
	Special Delivery Fee	
	Restricted Delivery Fee	
	Return Receipt showing to whom and Date Delivered	
1985	Return Receipt showing to whom, Date, and Address of Delivery	
Jun	TOTAL Postage and Fees	S
PS Form 3800, June 1985	Postmark or Date Mailed: 2-21-89 Permit: AC 29-1562	17, -18,-19
PS F	-20 ,	-21, -23,

are desired, and complete items Failure to do this will prevent this buthe name of the person delivered are available. Consult postmaster 2. ☐ Restricted Delivery (Extra charge)	4. Article Number P 274 007 595	Type of Service: Registered Insured Cortified COD Express Mail Petum Receipt for Merchandise	Always obtain signature of addressee or agent and DATE DELIVERED.	8. Addressee's Address (ONLY if requested and fee paid)			DOMESTIC RETURN RECEIPT
SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested. To Show to whom delivered, date, and addressee's address. Extra charge) (Extra charge)	3. Article Addressed to: Mr. R. G. Moore	ing Products	Tampa, FL 33616 Alway	5. Signature — Address 8. Ao	6. Signature - Agent X Town A. Rlabul	7. Date of Defivery FEB 2 3 1:39	PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865



Florida Department of Environmental Regulation

Twin Towers Office Bldg. 👂 2600 Blair Stone Road 👂 Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT

Mr. R. G. Moore Plant Manager Gold Bond Building Products P. O. Box 19307 Tampa, Florida 33616

February 21, 1989

Enclosed are construction permit Nos. AC 29-156217, AC 29-156218, AC 29-156219, AC 29-156220, AC 29-156221, AC 29-156223, AC 29-156224, to construct a joint compound production line at Gold Bond Building Products' existing Port Tampa facility, 6110 Commerce Street, Tampa, Hillsborough County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

Any party to this permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this permit is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality Management

Copy furnished to:

- D. Collins, Gold Bond Building Products
- P. Chheda, P.E.
- B. Thomas, SW District
- J. Campbell, EPCHC

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 2-21-89.

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to \$120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

clerk Date

Final Determination

Gold Bond Building Products Hillsborough County

Joint Compound Production Line:

Joint Compound Limestone DC Bin No.2
Joint Compound Polystyrene Grinding and Storage System
Joint Compound Polystyrene Transport System and Feed Hopper
Joint Compound Dry Mixer
Joint Compound Wet Mixer
Joint Compound Dry Material Bagging and Limestone Silo Systems
Joint Compound Limestone Silo Unloading System

Permit Numbers AC 29-156217 AC 29-156218 AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223 AC 29-156224

Florida Department of Environmental Regulation Bureau of Air Quality Management Central Air Permitting

February 17, 1989

Final Determination

The applications by Gold Bond Building Products to construct a joint compound production line with the capacity to produce 6,618 lbs./hr. (28,987 tons/yr.) of wet redi-mix joint compound and 5,735 lbs./hr. (25,119 tons/yr.) of dry powder joint compound have been reviewed by the Bureau of Air Quality Management. The project is to be located at the Gold Bond Building Products Port Tampa facility, Tampa, Hillsborough County, Florida. Public notice of the Department's intent to issue the permits appeared in The Tampa Tribune on February 2, 1989.

Copies of the Technical Evaluation and Preliminary Determination and associated materials have been available at the Hillsborough County Environmental Protection Commission office in Tampa, the Southwest District office in Tampa, and the Bureau of Air Quality Management office in Tallahassee.

No comments were received.



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:

Gold Bond Building Products

P. O. Box 19307 Tampa, FL 33616 Permit Numbers: AC 29-156217

AC 29-156218 AC 29-156219 AC 29-156220

AC 29-156221 AC 29-156223 AC 29-156224

Expiration Date: June 9, 1989

County: Hillsborough

Latitude/Longitude: 27° 52' 00"

82° 33' 00"

Project: Construction of a

Joint Compound Production Line

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. 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 Department and made a part hereof and specifically described as follows:

The construction of a joint compound production line with the capacity to produce 6,618 lbs./hr. (28,987 tons/yr.) of redi-mix joint compound and 5,735 lbs./hr. (25,119 tons/yr.) of dry powder joint compound. The joint consists of a limestone DC Bin No. The joint compound production line 2 (AC 29-156217) Flex-Kleen 84-WRB-64-III baghouse, a polystyrene grinding storage system (AC 29-156218) with Flex-Kleen 58-BV-9-II baghouse, a polystyrene transport system and feed hopper (AC 29-156219) with Flex-Kleen 58-BV-9-II baghouse, a dry mixer (AC 29-156220) with Flex-Kleen 58-BV-25-II baghouse, a wet mixer (AC 29-156221) with Flex-Kleen 58-BV-25-II baghouse, a dry material bagging system and limestone silo with holding systems connected to a common main collector (AC 29-156223) with Flex-Kleen 84-RA-128-KD baghouse, and a limestone silo pneumatic unloading system (AC 29-156224) with Flex-Kleen 84-CT-38-III baghouse. The project is to be located at the Gold Bond Building Products Port Tampa facility, Tampa, Hillsborough County, Florida.

The construction and operation of the sources shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223

AC 29-156224

Expiration Date: June 9, 1989

Attachments are listed below:

1. C. H. Fancy's letter dated November 15, 1988.

- D. B. Collins' letter (with attachments) dated November 23, 1988 and received November 28, 1988.
- 3. E. J. Reich's letter (FAX) dated December 28, 1988 and received December 28, 1988.
- 4. D. B. Collins' letter dated December 29, 1988 and received January 5, 1989.
- 5. D. B. Collins' letter dated January 11, 1989 and received January 17, 1989.

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223

AC 29-156224

Expiration Date: June 9, 1989

rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

- 4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- 6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;

PERMITTEE:
Gold Bond Building Products

Permit Numbers: AC 29-156217 AC 29-156218

AC 29-156219 AC 29-156220

AC 29-156221 AC 29-156223

AC 29-156224

Expiration Date: June 9, 1989

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and

c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or revocation of this permit.

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223 AC 29-156224

Expiration Date: June 9, 1989

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

- 12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain at the facility or other designated by this permit records of location monitoring information (including all calibration maintenance records and all original strip recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified Department rule.
 - c. Records of monitoring information shall include:

PERMITTEE: Permit Numbers:

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223

AC 29-156217

AC 29-156223 AC 29-156224

Expiration Date: June 9, 1989

- the date, exact place, and time of sampling or measurements;

- the person responsible for performing the sampling or measurements;

- the date(s) analyses were performed;

- the person responsible for performing the analyses;

- the analytical techniques or methods used; and

- the results of such analyses.

15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

SPECIFIC CONDITIONS:

- 1. The hours of operation for the polystyrene grinding and storage system (AC 29-156218), polystyrene transport system and feed hopper (AC 29-156219), dry mixer (AC 29-156220), wet mixer (AC 29-156221), dry material bagging system and limestone silo with holding systems connected to a common main dust collector (AC 29-156223), and limestone silo pneumatic unloading system (AC 29-156224) shall be continuous (i.e. 8760 hrs./yr.). The hours of operation for the loading of the limestone DC Bin No. 2 (AC 29-156217) shall not exceed 3640 hrs./yr.
- 2. The maximum hourly rate of operation for the permitted sources shall be as follows:
- a. For the limestone DC Bin No. 2 (AC 29-156217), limestone shall not be loaded into the bin at a rate of more than 20,000 lbs./hr.
- b. For the polystyrene grinding and storage system (AC 29-156218), polystyrene peanuts shall not be ground at a rate of more than 40 lbs./hr.

PERMITTEE: Permit Numbers: AC 29-156217
Gold Bond Building Products AC 29-156218

AC 29-156218 AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223 AC 29-156224

Expiration Date: June 9, 1989

29-156219), polystyrene transport system and feed hopper (AC 29-156219), polystyrene shall not be fed to the hopper at a rate of more than 40 lbs./hr.

- d. For the dry mixer (AC 29-156220), dry powder joint compound shall not be produced at a rate of more than 5,735 lbs./hr.
- e. For the wet mixer (AC 29-156221), wet redi-mix joint compound shall not be produced at a rate of more than 6,618 lbs./hr.
- f. For the dry material bagging system and limestone silo with holding systems (AC 29-156223), the sum total of dry powder product output and wet redi-mix product output shall not exceed 12,353 lbs./hr.
- g. For the limestone silo pneumatic unloading system (AC 29-156224), limestone shall not be fed to the limestone supply silo at a rate of more than 8,300 lbs./hr.
- 3. Calibrated devices to continuously measure and record the following process variables shall be installed:
- a. The hourly rate that limestone is loaded into the limestone DC Bin No. 2 (AC 29-156217).
- b. The hourly rate that polystyrene peanuts are ground into beads polystyrene grinding and storage system (AC 29-156218).
- c. The hourly rate of dry powder product output from the dry mixer (AC 29-156220).
- d. The hourly rate of wet redi-mix product output from the wet mixer (AC 29-156221).

Each device and recorder shall be recalibrated at least annually.

4. The maximum particulate emissions from each of the permitted sources shall be limited as follows:

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223

AC 29-156224 Expiration Date: June 9, 1989

a. Particulate emissions from the limestone DC Bin No. 2 (AC 29-156217) shall neither exceed 0.03 gr./DSCF, nor 0.60 lbs./hr., nor 1.09 tons/yr.

- b. Particulate emissions from the polystyrene grinding and storage system (AC 29-156218) shall neither exceed 0.03 gr./DSCF, nor 0.09 lbs./hr., nor 0.4 tons/yr.
- c. Particulate emissions from the polystyrene transport system and feed hopper (AC 29-156219) shall neither exceed 0.03 gr./DSCF, nor 0.09 lbs./hr., nor 0.4 tons/yr.
- d. Particulate emissions from the dry mixer (AC 29-156220) shall neither exceed 0.03 gr./DSCF, nor 0.18 lbs./hr., nor 0.78 tons/yr.
- e. Particulate emissions from the wet mixer (AC 29-156221) shall neither exceed 0.03 gr./DSCF, nor 0.18 lbs./hr., nor 0.78 tons/yr.
- f. Particulate emissions from the dry material bagging system and limestone silo with holding systems connected to a common main dust collector (AC 29-156223) shall neither exceed 0.03 gr./DSCF, nor 1.3 lbs./hr., nor 5.68 tons/yr.
- g. Particulate emissions from the limestone silo pneumatic unloading system (AC 29-156224) shall neither exceed 0.03 gr./DSCF, nor 0.4 lbs./hr., nor 1.75 tons/yr.
- 5. Visible emissions from the limestone DC Bin No. 2 (AC 29-156217), the polystyrene grinding and storage system (AC 29-156218), the polystyrene transport system and feed hopper (AC 29-156219), the dry mixer (AC 29-156220), the wet mixer (AC 29-156221), the dry material bagging system and limestone silo with holding systems connected to a common main collector (AC 29-156223), and the limestone silo pneumatic unloading system (AC 29-156224) shall not exceed 5% opacity (no visible emissions) as a 6-minute average.
- 6. All reasonable precautions shall be taken to prevent and control the generation of unconfined particulate matter emissions

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221

AC 29-156223 AC 29-156224

Expiration Date: June 9, 1989

resulting from all operations and sources associated with the production of joint compound. The operations include, but are not limited to, the unloading, storage, mixing, packaging, and handling of materials. Reasonable precautions include, but are not limited to, the regular clean-up of dust accumulations and raw material spills using procedures that are acceptable to the Department and the Hillsborough County Environmental Protection Commission (HCEPC).

- 7. This modification results in a particulate matter increase of 10.88 tons/yr. This increase in emissions is contemporaneous with a particulate matter increase of 3.40 tons/yr. resulting from the issuance of air constructions permits AC 29-147504 and AC 29-155612. This increase of 10.88 tons/yr. in particulate emissions shall also be contemporaneous with any increase associated with any future modification pursuant to Florida Administrative Code (F.A.C.) Rule 17-2.510.
- 8. The Department has relied upon both the oral and written information supplied by the applicant in the issuance of these permits. Upon transfer of the joint compound production line to Hillsborough County, the permittee shall surrender all air permits for the joint compound production line that were issued by the Department and/or Dade County to the appropriate agency.
- 9. Compliance with Specific Conditions Nos. 5 and 6 shall be demonstrated pursuant to all applicable provisions of F.A.C. Rule 17-2.700.
- a. Initially, compliance with Specific Condition No. 5 shall be demonstrated prior to obtaining an operation permit and prior to obtaining a renewed operation permit thereafter using EPA Methods 1, 2, 4, and 5.
- b. Alternatively, compliance with Specific Condition No. 5 may be demonstrated initially and annually thereafter by using EPA Methods 2 and 9 to demonstrate that visible emissions from each of the baghouses do not exceed 5% opacity (no visible emissions) as a 6-minute average. If the Department or the HCEPC has reason to believe the mass emission limitation in Specific Condition No. 5 is being exceeded--a

Gold Bond Building Products AC 29-156218

AC 29-156218 AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223 AC 29-156224

Expiration Date: June 9, 1989

mass emission test using EPA Methods 1, 2, 4, and 5 may be required.

- c. Initially, compliance with Specific Condition No. 6 shall be demonstrated prior to obtaining an operation permit and annually thereafter using EPA Method 9.
- d. The Department's Southwest District office and the HCEPC shall be notified at least 15 days in advance of any compliance test.
- e. Compliance test reports shall conform to the requirements of F.A.C. Rule 17-2.700(7) and shall be submitted to the Department's Southwest District office and the HCEPC within 45 days after completion of the test.
- f. Each permitted source shall be operated at 90% to 100% of the maximum permitted rate during any compliance test.
- g. The initial compliance test shall be performed within 30 days after the completion of construction.
- 10. An operation and maintenance plan acceptable to the Department and the HCEPC shall be developed by the applicant. This plan shall be submitted with the application for a construction permit. When approved, the plan shall become a condition of the operation permit.
- 11. The permittee for good cause, may request that this construction permit be extended. Such a request shall be submitted to the BAQM prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
- 12. The application for an operation permit must be submitted to the Southwest District office and the HCEPC at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the

PERMITTEE:
Gold Bond Building Products

Permit Numbers: AC 29-156217

AC 29-156218 AC 29-156219

AC 29-156220 AC 29-156221

AC 29-156223 AC 29-156224

Expiration Date: June 9, 1989

conditions of the permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued this 20 day of 20, 1989

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Dale Twachtmann, Secretary



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

	For Routing To Other Than The Addressee
ъ:	Locabon:
16:	Locabon:
Ть:	Locabon:
From:	Oate:

Interoffice Memorandum

FEB 20: 1989

TO: Dale Twachtmann Office of the Secretary

FROM:

SUBJ:

Steve Smallwood

Approval of Construction Permit Nos. AC 29-156217,

AC 29-156218, AC 29-156219, AC 29-156220, AC 29-156221, AC 29-156223, AC 29-156224

Gold Bond Building Products

DATE: February 17, 1989

Attached for your approval and signature are permits prepared by Central Air Permitting for the above mentioned company to construct a joint compound production line.

No comments were received during the public notice period.

Day 90, after which this permit will be issued by default, is April 29, 1989.

I recommend your approval and signature.

SS/mh

attachments

Please call Patty adams when signed



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

	For Routing To Other Than	The Addressee
To:		Location:
To:		Location:
To:		Location:
From:	· · ·	Oete:

Interoffice Memorandum

TO: Dale Twachtmann

FROM: Steve Smallwood

SUBJ: Approval of Construction Permit Nos. AC 29-156217,

AC 29-156218, AC 29-156219, AC 29-156220, AC 29-156221,

AC 29-156223, AC 29-156224 Gold Bond Building Products

DATE: February 17, 1989

Attached for your approval and signature are permits prepared by Central Air Permitting for the above mentioned company to construct a joint compound production line.

No comments were received during the public notice period.

Day 90, after which this permit will be issued by default, is April 29, 1989.

I recommend your approval and signature.

SS/mh Bl attachments

Check Sheet

Company Name: GO WD BOND BU	ILDING PRODUCTS	<u> </u>
·	through 19622 and	
PSD Number:		
Permit Engineer:		
Application: Initial Application Incompleteness Letters Responses Waiver of Department Action Department Response Other	Cross References:	•
Intent:		
Intent to Issue Notice of Intent to Issue		
Technical Evaluation		
BACT Determination		
Unsigned Permit		
Correspondence with: EPA Park Services		
Other Proof of Publication Petitions - (Related to extensions, hearings, etc.)	:	
Waiver of Department Action Other	1	
Final Determination: Final Determination		
Signed Permit BACT Determination		
Other		
Post Permit Correspondence: Extensions/Amendments/Modifications Other		

In the folder labeled as follows there are documents, listed below, which were not reproduced in this electronic file. That folder can be found in the supplementary documents file drawer. Folders in that drawer are arranged alphabetically, then by permit number.

Folder Name: Gold Bond Building Products

Permit(s) Numbered:

AC	29	-156217
AC	29	-156218
AC	29	-156219
AC	29	-156220
AC	29	-156221
AC	29	-156223
AC	29	-156224

Documents:

Period during

Detailed Description

which

document was

received

Application 28 Nov 1988

1. 24"×36" BLUEPRINT: JOINT COMPOUND FLOW DIAGRAM (DRAWING NUMBER SK-111888-0)

7 DEC 1988

2. GOLD BOND GYPSUM DRYWALL JOINT TREATMENT GUIDE

P 938 762 676

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Mr. R. G. Moore,	Gold Bond
Street and No. Build	ing Products
P.O., State and ZIP Code	
Postage ,	S
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	_
Return Receipt showing to whom. Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	
Permit: AC 29-15 Mailed: 9-13-89	5612
	Mr. R. G. Moore, Street and No. Build 6110 Commerce St. P.O. State and ZIP Code Tampa, FL 33616 Postage Certified Fee Special Delivery Fee Restricted Delivery Fee Return Receipt showing to whom and Date Delivery TOTAL Postage and Fees Postmark or Date Permit: AC 29-15

al services are desired, and complete items	verse side. Failure to do this will prevent this Il provide you the name of the person delivered ing services are available. Consult postmaster	ested. address. 2. Raticted Delivery (Extra charge)	4. Article Number	P 938 762 676	Type of Service:	Registered Insured		Express: Mail Con Merchandise	Always obtain signature of addressee	or agent and DATE DELIVERED.	8. Addressee's Address (ONLY if	requestea ana fee pata)	<	1		12-865 DOMESTIC RETURN RECEIPT
SENDER: Complete items 1 and 2 when additional services are desired, and complete items	Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster	for fees and check box(es) for additional service(s) requested. 1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge)	3. Article Addressed to:	Mr. R. G. Moore	Tampa Plant Manager	Gold Bond Building Products	6110 Commerce Street	Tampa, FL 33616	•		5. Signature - Address \\	×	6. Signature,— Agent //	x Margolancear	7. Date of Deliyer SEP 18 1989	PS Form 3811, Mar. 1988 + U.S.G.P.O. 1988-212-865



Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

August 31, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. R. G. Moore Tampa Plant Manager Gold Bond Building Products 6110 Commerce Street Tampa, Florida 33616

Dear Mr. Moore:

The Department received your request for an extension of the expiration date for the construction permit referenced below. The request is acceptable and the following shall be changed:

Project: AC 29-155612

From: August 31, 1989 To: November 30, 1989

Attachment to be Incorporated:

Letter from Gold Bond Building Products dated August 17, 1989, requesting a change in the expiration date.

This letter must be attached to your construction permit, AC 29-155612, and shall become a part of that permit.

Sincerely,

Pale Twachtmann

Secretary

DT/kt

cc: W. Thomas, SW District

J. Campbell, EPCHC

P. Chedda, Gold Bond



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

	For Routing To Other Than	The Addressee
To:	·	Location:
To:	 	Location:
To:		Location:
From:	· .	Dete:

Interoffice Memorandum

TO: Dale Twachtmann

FROM: Steve Smallwood CHO

DATE: August 31, 1989

SUBJ: Amendment to Construction Permit No. AC 29-155612

Gold Bond Building Products

Attached for your approval and signature is a letter extending the expiration date for the above referenced construction permit.

The Division recommends approval of this amendment.

SS/kt

attachment



P-938 762 574

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Reverse)

	Sent to Mr. R. G. Moore, Go	1d		
	Street and No. P.O. Box 19307		Prod	•
ı	P.O., State and ZIP Code Tampa, FL 33616		,	
٠	Postage	S		
	Certified Fee			
	Special Delivery Fee			
	Restricted Delivery Fee			
,	Return Receipt showing to whom and Date Delivered		_	
ממנים ביותה	Return Receipt showing to whom, Date, and Address of Delivery			
	TOTAL Postage and Fees	s		
, O III 3600,	Postmark or Date Mailed: 5-24-89			
5	Permit: AC 29-1562 AC 29-1562			1

Se Se	eld is						٦				EIPT
olete iter	revent the deliver postmas	very		 	COD Return Receipt for Merchandise	Iressee		NLY if			URN RE
some 1 and 2 when additional services are desired, and complete items	3 and 4. 3 and 4. 3 and 4. 3 and 4. Senders in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this put your address in the "RETURN TO" Space on the reverse side. Failure of the person delivered card from being returnated to you. The return receipt fee will provide you the name of the person delivered card from being returned to you. The return receipt fee will provide you the name of the person delivered card from the person delivered card from the person delivered card from the person delivered to the person delivered t	2. ☐ Restricted Delivery (Extra charge)	74	Insured		Always obtain signature of addressee	or agent and DATE DELIVERED.	8. Addressee's Address (ONLY if requested and fee paid)			DOMESTIC RETURN RECEIPT
desired,	re to do e name of available	☐ Restri (Extra	Article Number 938 762 5	ervice:	i d	ain signat	DATE D	Addressee's Address requested and fee paid)			DOMES
ices are	side. Failu de you the vices are	ss. 2.	. Article Number P 938 762 574	Type of Service:	Certified Fxpress Mail	lways obt	r agent ar	3. Address request			165
onal serv	reverse s will provi	equested. e's addres	4	<u> -</u> _		1 4	<u> </u>	/	LA.	PORT	8-212-8
en additi	ce on the	the date of derivery for additional service(s) requested. ss and check box(es) for additional service(s) addressee's address. Show to whom delivered, date, and addressee's address.			ខ			TAMPA	191		* U.S.G.P.O.M988-212-865
dw C bo	TO" Space return restronal fee	itional se ate, and harge)		;	Gold Bond Building Products p O Rox 19307			1	100	3	U.S.G.P
l ome	RETURN The	for additional livered, date, a (Extra charge)	1		ling P 7	S		, ,	100	35	
-	in the "I eturned to	ck box(es	3. Article Addressed to:	Mr. K. G. Moore Plant Manager	Gold Bond Build	Tampa, FL 33616	•	5. Signature - Address	- Agent	ivery (PS Form 3811, Mar. 1988
	DER: Co	and che	cle Addre	Mr. K. G. MOO Plant Manager	Bond 1	a, FL	,	nature -	Signature	Date of Delivery	n 3811
	SEN 3 ar Put you card fro	to and to for fees	3. Arti	Mr. Plan	Colc	Tamt		5. Sig	× 6.	× 7.	PS For



Florida Department of Environmental Regulation

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

May 18, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. R. G. Moore
Plant Manager
Gold Bond Building Products
P. O. Box 19307
Tampa, Florida 33616

Dear Mr. Moore:

Re: Approval of a Construction Permit Amendment for Gold Bond Building Products Construction Permit Numbers AC 29-156217 through AC 29-156221, and AC 29-156223 through AC 29-156224

The Department has received and reviewed Gold Bond's letters of March 28, 1989, which requested some minor amendments to the above referenced permits. The Department grants the requested change in the control equipment for Joint Compound Limestone DC Bin No. 2 (AC 29-156217) and the requested change to Specific Condition No. 3. The Department is also amending the permits to more accurately reflect the permitted sources.

The following amendments shall be made to the permits:

Project Description:

The construction of a joint compound production line with the capacity to produce 6,618 lbs./hr. (28,987 tons/yr.) of wet redi-mix joint compound and 5,735 lbs./hr. (25,119 tons/yr.) of dry powder joint compound. The joint compound production line No. 2 (AC 29-156217) consists of limestone DC Bin a Flex-Kleen--84 WRB-64 III Ultra Industries, Inc. 100-C-24-III baghouse, a polystyrene grinding and storage system (AC 29-156218) with Flex-Kleen 58-BV-9-II baghouse, a polystyrene transport system and feed hopper (AC 29-156219) with Flex-Kleen 58-BV-9-II baghouse, a dry mixer (AC 29-156220) with Flex-Kleen 58-BV-25-II baghouse, a wet mixer (AC 29-156221) with Flex-Kleen 58-BV-25-II baghouse, a dry material bagging system and limestone sideholding bin with intermediate holding systems connected to dust collector (AC 29-156223) with main 84-RA-128-KD baghouse, and a limestone site holding bin pneumatic unloading system (AC 29-156224) with Flex-Kleen 84-CT-38-III

Mr. R. G. Moore Page Two May 18, 1989

baghouse. The project is to be located at the Gold Bond Building Products Port Tampa facility, Tampa, Hillsborough County, Florida.

Specific Condition No. 1:

The hours of operation for the polystyrene grinding and storage system (AC 29-156218), polystyrene transport system and feed hopper (AC 29-156219), dry mixer (AC 29-156220), wet mixer (AC 29-156221), dry material bagging system and limestone site holding bin with intermediate holding systems connected to a common main dust collector (AC 29-156223), and limestone site holding bin pneumatic unloading system (AC 29-156224) shall be continuous (i.e. 8760 hrs./yr.). The hours of operation for the loading of the limestone DC Bin No. 2 (AC 29-156217) shall not exceed 3640 hrs./yr.

Specific Condition No. 2:

The maximum hourly rate of operation for the permitted sources shall be as follows:

- a. thru e.-No Change.
- f. For the dry material bagging system and limestone sile holding bin with intermediate holding systems (AC 29-156223), the sum total of dry powder product output and wet redi-mix product output shall not exceed 12,353 lbs./hr.
- g. For the limestone sile holding bin pneumatic unloading system (AC 29-156224), limestone shall not be fed to the limestone supply silo at a rate of more than 8,300 lbs./hr.

Specific Condition No. 3:

- 3. Calibrated-devices to-centinuously-measure and-record-the fellowing-process-variables-shall-be-installed Permittee shall measure data and maintain records of the following process variables at all times the joint compound production line is in operation:
- a. The hourly rate that limestone is loaded into the limestone DC Bin No. 2 (AC 29-156217).

Mr. R. G. Moore Page Three May 18, 1989

- b. The hourly rate that polystyrene peanuts are ground into beads by the grinder for the polystyrene grinding and storage system (AC 29-156218).
- c. The hourly rate of dry powder product output from the dry mixer (AC 29-156220).
- d. The hourly rate of wet redi-mix product output from the wet mixer (AC 29-156221).

Each-device-and-recorder-shall-be-recalibrated-at-least-annually-

Specific Condition No. 4:

The maximum particulate emissions from each of the permitted sources shall be limited as follows:

- a. Particulate emissions from the limestone DC Bin No. 2 (AC 29-156217) shall neither exceed 0.03 gr./DSCF, nor θ -60 0.30 lbs./hr., nor θ -90 0.55 tons/yr.
- b. thru e.-No Change.
- f. Particulate emissions from the dry material bagging system and limestone sile holding bin with intermediate holding systems connected to a common main dust collector (AC 29-156223) shall neither exceed 0.03 gr./DSCF, nor 1.3 lbs./hr., nor 5.68 tons/yr.
- pneumatic unloading system (AC 29-156224) shall neither exceed 0.03 gr./DSCF, nor 0.4 lbs./hr., nor 1.75 tons/yr.

Specific Condition No. 5:

Visible emissions from the limestone DC Bin No. 2 (AC 29-156217), the polystyrene grinding and storage system (AC 29-156218), the polystyrene transport system and feed hopper (AC 29-156219), the dry mixer (AC 29-156220), the wet mixer (AC 29-156221), the dry material bagging system and limestone site holding bin with intermediate holding systems connected to a common main collector (AC 29-156223), and the limestone site holding bin pneumatic unloading system (AC 29-156224) shall not exceed 5% opacity (no visible emissions) as a 6-minute average.

Mr. R. G. Moore Page Four May 18, 1989

Specific Condition No. 7:

This modification results in a particulate matter increase of 10.34 tons/yr. This increase in emissions is contemporaneous with a particulate matter increase of 3.40 tons/yr. resulting from the issuance of air constructions permits AC 29-147504 and AC 29-155612. This increase of 10.34 tons/yr. in particulate emissions shall also be contemporaneous with any increase associated with any future modification pursuant to Florida Administrative Code (F.A.C.) Rule 17-2.510.

Attachments to be Added:

- 9. D. B. Collins' letter dated March 28, 1989, and received March 31, 1989.
- 10. D. B. Collins' letter (with attachments) dated March 28, 1989, and received April 3, 1989.

This letter shall be attached to the construction permits, AC 29-156217 through AC 29-156221, and AC 29-156223 through AC 29-156224; and shall become a part of the permits.

Śingerely,

Dale Twachtmann

Secretary

DT/mdh

cc:

- D. Collins, Gold Bond Building Products
- P. Chheda, P.E.
- B. Thomas, SW District
- J. Campbell, HCEPC

Best Available Copy



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

	For Routing To Other Than The Addressee
то:	Location:
то:	Location:
То:	Location:
From:	Date:

Interoffice Memorandum

MAY 18 1000

Dale Twachtmann

FROM: Steve Smallwood Office of the Secretary

SUBJ:

Approval of a Construction Permit Amendment for Gold Bond Building Products Construction Permit Numbers AC 29-156217 through AC 29-156221, and AC 29-156223 through AC 29-156224

DATE: May 18, 1989

Attached for your approval and signature is a letter prepared by Central Air Permitting that will amend the construction permits for a joint compound production line. The amendment will clarify the construction permits and allow the permittee to install more effective emission control equipment.

The facility is located in Tampa, Hillsborough County, Florida. The amendment is not controversial.

I recommend your approval and signature.

SS/mdh

attachments

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2500 BLAIR STONE ROAD TALLAHASSEE; FLORIDA 32399-2400



BOB MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

FAX TRANSMITTAL LETTER

<u>TO</u> :
NAME: E. Q. Reich
AGENCY: Bold Bond Bldg. Products
TELEPHONE NUMBER: <u>104/365-133/</u>
NUMBER OF PAGES (INCLUDING COVER SHEET): 5
FROM:
Name: Mike Harley
AGIENCY: FL DER
TRANSMITTAL ON A HITACHI HIFAX-35 PHONE NUMBER 904-488-657
IF ANY OF THE PAGES ARE NOT CLEARLY RECEIVED, PLEASE CALL IMMEDIATELY. Phone No. 904/488-1344
SENDERS NAME: Patty adams
COMMENTS: De and call Mike Harley (904/484-1344)
COMMENTS: Please call Mike Harley (904/484-1344) if you have any comments.
•



Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

May 1, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. R. G. Moore
Plant Manager
Gold Bond Building Products
P. O. Box 19307
Tampa, Florida 33616

DRAFT

Dear Mr. Moore:

Re: Extension of Expiration Date, Joint Compound Production Line, AC 29-156217 through AC 29-156221, and AC 29-156223 through AC 29-156224

The Department has received and reviewed Gold Bond's letters of March 28, 1989, which requested some minor amendments to the above referenced permits. The Department grants the requested change in the control equipment for Joint Compound Limestone DC Bin No. 2 (AC 29-156217) and the requested change to Specific Condition No. 3. The Department is also amending the permits to more accurately reflect the permitted sources.

The following amendments shall be made to the permits:

Project Description:

The construction of a joint compound production line with the capacity to produce 6,618 lbs./hr. (28,987 tons/yr.) of wet redi-mix joint compound and 5,735 lbs./hr. (25,119 tons/yr.) of dry powder joint compound. The joint compound production line No. 2 (AC 29-156217) limestone DC Bin of Flex-Kleen---84-WRB-64-III Ultra Industries, Inc. 100-C-24-III baghouse, a polystyrene grinding and storage system (AC 29-156218) with Flex-Kleen 58-BV-9-II baghouse, a polystyrene transport system and feed hopper (AC 29-156219) with Flex-Kleen 58-BV-9-II baghouse, a dry mixer (AC 29-156220) with Flex-Kleen 58-BV-25-II baghouse, a wet mixer (AC 29-156221) with Flex-Kleen 58-BV-25-II baghouse, a dry material bagging system and limestone holding bin with intermediate holding systems connected to a (AC 29-156223) with dust collector main 84-RA-128-KD baghouse, and a limestone site holding bin pneumatic unloading system (AC 29-156224) with Flex-Kleen 84-CT-38-III

Mr. R. G. Moore Page Two May 1, 1989

baghouse. The project is to be located at the Gold Bond Building Products Port Tampa facility, Tampa, Hillsborough County, Florida.

• Specific Condition No. 1: DAAFT

The hours of operation for the polystyrene grinding and storage system (AC 29-156218), polystyrene transport system and feed hopper (AC 29-156219), dry mixer (AC 29-156220), wet mixer (AC 29-156221), dry material bagging system and limestone site holding bin with intermediate holding systems connected to a common main dust collector (AC 29-156223), and limestone site holding bin pneumatic unloading system (AC 29-156224) shall be continuous (i.e. 8760 hrs./yr.). The hours of operation for the loading of the limestone DC Bin No. 2 (AC 29-156217) shall not exceed 3640 hrs./yr.

• Specific Condition No. 2: DRAFT

The maximum hourly rate of operation for the permitted sources shall be as follows:

- a. thru e.-No Change.
- f. For the dry material bagging system and limestone sile holding bin with intermediate holding systems (AC 29-156223), the sum total of dry powder product output and wet redi-mix product output shall not exceed 12,353 lbs./hr.
- g. For the limestone sile holding bin pneumatic unloading system (AC 29-156224), limestone shall not be fed to the limestone supply silo at a rate of more than 8,300 lbs./hr.

• <u>Specific Condition No. 3</u>:

- 3. Calibrated-devices-to-centinuously-measure-and-record-the fellowing-process-variables-shall-be-installed Permittee shall measure data and maintain records of the following process variables at all times the joint compound production line is in operation:
- a. The hourly rate that limestone is loaded into the limestone DC Bin No. 2 (AC 29-156217).

Mr. R. G. Moore Page Three May 1, 1989

- b. The hourly rate that polystyrene peanuts are ground into beads by the grinder for the polystyrene grinding and storage system (AC 29-156218).
- c. The hourly rate of dry powder product output from the dry mixer (AC 29-156220).
- d. The hourly rate of wet redi-mix product output from the wet mixer (AC 29-156221).

Each-device-and-recorder-shall-be-recalibrated-at-least-annually-

• Specific Condition No. 4: DALL

The maximum particulate emissions from each of the permitted sources shall be limited as follows:

- a. Particulate emissions from the limestone DC Bin No. 2 (AC 29-156217) shall neither exceed 0.03 gr./DSCF, nor θ - θ 0.30 lbs./hr., nor θ - θ 9 0.55 tons/yr.
- b. thru e.-No Change.
- f. Particulate emissions from the dry material bagging system and limestone sile holding bin with intermediate holding systems connected to a common main dust collector (AC 29-156223) shall neither exceed 0.03 gr./DSCF, nor 1.3 lbs./hr., nor 5.68 tons/yr.
- g. Particulate emissions from the limestone sile holding bin pneumatic unloading system (AC 29-156224) shall neither exceed 0.03 gr./DSCF, nor 0.4 lbs./hr., nor 1.75 tons/yr.
- Specific Condition No. 5:

Visible emissions from the limestone DC Bin No. 2 (AC 29-156217), the polystyrene grinding and storage system (AC 29-156218), the polystyrene transport system and feed hopper (AC 29-156219), the dry mixer (AC 29-156220), the wet mixer (AC 29-156221), the dry material bagging system and limestone sile holding bin with intermediate holding systems connected to a common main collector (AC 29-156223), and the limestone sile holding bin pneumatic unloading system (AC 29-156224) shall not exceed 5% opacity (no visible emissions) as a 6-minute average.

DRAFT

Mr. R. G. Moore Page Four May 1, 1989

• Specific Condition No. 7:

This modification results in a particulate matter increase of emissions 10-88 10.34 This increase in tons/yr. contemporaneous with a particulate matter increase of tons/yr. resulting from the issuance of air constructions permits AC 29-147504 and AC 29-155612. This increase of 10.34tons/yr. in particulate emissions shall also be contemporaneous with any increase associated with any future modification pursuant to Florida Administrative Code (F.A.C.) Rule 17-2.510.

Attachments to be Added:



- 9. D. B. Collins' letter dated March 28, 1989, and received March 31, 1989.
- 10. D. B. Collins' letter (with attachments) dated March 28, 1989, and received April 3, 1989.

This letter shall be attached to the construction permits, AC 29-156217 through AC 29-156221, and AC 29-156223 through AC 29-156224; and shall become a part of the permits.

Sincerely,



Dale Twachtmann Secretary

DT/mdh

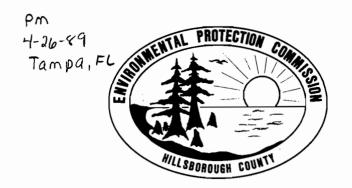
cc:

- D. Collins, Gold Bond Building Products
- P. Chheda, P.E.
- B. Thomas, SW District
- J. Campbell, HCEPC

file copy

COMMISSION
PHYLLIS BUSANSKY
RODNEY COLSON
PAM IORIO
RUBIN E. PADGETT
JAN KAMINIS PLATT
HAVEN POE

JAMES D. SELVEY



ROGER P. STEWART DIRECTOR

1900 - 9th AVE TAMPA, FLORIDA 33605

RECEIVE D

APR 2 8 1989

April 25, 1989

DER - BAQIII.

Mr. Mike Harley
Bureau of Air Quality Management
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RE: Joint Compound Production Line

Permit Revisions

Dear Mr. Harley:

The staff of the Environmental Protection Commission of Hillsborough County (EPC/HC) is in receipt of and has consequently reviewed the two permit revision requests dated March 28, 1989 from Mr. Doug Collins of Gold Bond Building Products.

Per our telephone conversation on April 25, 1989, the EPC/HC has no problem with allowing the company to use plant production records in lieu of a calibrated device to continuously measure the various hourly rates.

Also, the design changes in regards to permit number AC29-156217, i.e. (reduction in flow rate, use of existing DC Bin) requires changes in the process description and various specific conditions. Upon review of the revised application and from conversations with yourself, the EPC/HC is in agreement with the proposed revision.

Thank you for your assistance in this matter. If you have any questions, please call Suncom 543-5530.

Sincerely,

Arthur J. Wells

Cuthun J. Wells

Air Permit Engineer

bb

CC: J. Harry Kerns/Rama Iyer, FDER
Doug Collins, Gold Bond Building Products
R.G. Moore, Gold Bond Building Products (Tampa)

whied: CHF/13T

Environmental Protection Commission of Hillsborough County

1900 9th Avenue Tampa, Florida 33605

777



Mr. Mike Harley
Bureau of Air Quality Management
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

.

file copy



April 3, 1989

RECEIVED

APR 1 0 1989

DER - BAQM

Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation Southwest District 4520 Fair Blvd. Tampa, Florida 33610-7347

Hillsborough County Environmental Protection Commission 1410 North 21st Street Tampa, Florida 33605

Re: Joint Compound Production Line:

Permit Numbers: AC 29-156217 AC 29-156221 AC 29-156218 AC 29-156223 AC 29-156219 AC 29-156224

AC 29-156220

Dear Sir:

This is a follow up to my letter of March 7, 1989, stating that compliance tests would be conducted on or about April 3, 1989. Due to scheduling, these tests will be conducted during the week of April 17, 1989. The exact date will be confirmed as soon as possible.

Sincerely,

D.B. Collins

D. B. Collins Environmental Engineer

DBC/mmm

cc: R. G. Moore
Tampa Plant Mgr.

E. J. Reich Chief Mechanical Engr.



A National Gypsum Division

March 28, 1989

➤ Dept. of Environmental Regulation Bureau of Air Ouality Management 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation Southwest District 4520 Oak Fair Blvd. Tampa, Florida 33610-7347

Hillsborough County Environmental Protection Commission 1410 North 21st Street Tampa, Florida 33605

Joint Compound Production Line Re: System #1 Limestone Silo Permit Number AC 29-156217

Dear Sir:

RECEIVED APR 3 1989

DER - BAOM

It has become necessary for us to make design changes on the above system. The silo from our Dade County plant will not be installed for limestone storage. Instead, we are using an existing DC Bin (Drag Chain) Bin to store limestone. Also, the unloading air flow requirement for system #1 has been reduced from 2300 CFM to 1050 CFM, therefore, the dust collector size will be changed to one with 288 sq. ft. fabric which results in the same 3.6:1 A/C ratio. The process rate will remain at 10 tons/hr.

We have enclosed a revised application and flow chart for these changes.

If you have any questions, please call.

Sincerely,

D. B. Collins

Environmental Engineer

DBC/mmm

R. G. Moore cc:

Tampa Plant Mgr.

E. J. Reich

Chief Mech. Eng. Executive Offices • 2001 Rexford Road • Charlotte, NC 28211-3498 • 704 365-7300

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

WILLIAM K. HENNESSEY DISTRICT MANAGER

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
APPLICATION TO OPERATE/CONS	TRUCT AIR POLLUTION SOURCES
SOURCE TYPE: Air Pollution	[x] New [] Existing
APPLICATION TYPE: [x] Construction [] Oper	ation [] Modification
COMPANY NAME: Gold Bond Building Product	
ional Gypsum Company Identify the specific emission point source(s) addressed in this application (i.e. Lime Joint Compound
Kiln No. 4 with Venturi Scrubber; Peaking Uni	
SOURCE LOCATION: Street 6110 Commerce Str	eet <u>City Port Tampa</u>
UTM: East 17-347.3	North 3.082.7
Latitude 27 52	N Longitude 02 ° 33 ' 'W
APPLICANT NAME AND TITLE: R.G. Moore, Plan	t Manager
APPLICANT ADDRESS: 6110 Commerce Street, P	.O. Box 19307, Tampa, Florida 33616
SECTION I: STATEMENTS E	Y APPLICANT AND ENGINEER
A. APPLICANT	Gold Bond Building Produc
I am the undersigned owner or authorized	representative* of Division of National Gypsum Company
I certify that the statements made in thi	s application for a Construction
permit are true, correct and complete to	the best of my knowledge and belief. Further,
facilities in such a manner as to compl	llution control source and pollution control y with the provision of Chapter 403, Florida
Statutes, and all the rules and regulation	ns of the department and revisions thereof. I
also understand that a permit, if grante	d by the department, will be non-transferable upon sale or legal transfer of the permitted
establishment.	•
*Attach letter of authorization Si	gned: Romone
	R.G. Moore, Plant Manager Name and Title (Please Type)
Da	te: 3-3/-89 Telephone No.(813) 839-2111
B. PROFESSIONAL ENGINEER REGISTERED IN FLORI	DA (where required by Chapter 471, F.S.)

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

	ollution sources.	Signed PHChl
	STATE OF STA	Padamshi H. Chheda
Wite.	A E B	Name (Please Type)
HAPINE	D E 177/	Gold Bond Building Products, Division of National Gypsum Company
3		Company Name (Please Type)
	THERE TO WHENTER	2 <u>001 Rexford Road, Charlotte, N.C. 28211</u> Mailing Address (Please Type)
	· · · · · · · · · · · · · · · · · · ·	•
lorio	da Registration No. <u>284</u>	133 Date: 10-10-1988 Telephone No. (704)365-7238
	SECT	TION II: GENERAL PROJECT INFORMATION
ar w i	nd expected improvements	extent of the project. Refer to pollution control equipment, in source performance as a result of installation. State result in full compliance. Attach additional sheet if
	This is a 180 tor	n capacity BIN and will contain only limestone. It
_		
	will be pneumation	cally loaded from railcars or trucks at a rate of 10
 	will be pneumations/hr. Using	
	will be pneumations/hr. Using 288 sq. ft. bagho	cally loaded from railcars or trucks at a rate of 10 1050 CFM conveying air which will be vented thru a cuse which will result in full compliance.
St Co fo Ir	will be pneumation tons/hr. Using 288 sq. ft. baghor the construction Main terms of Construction Main terms of pollution control or individual components	cally loaded from railcars or trucks at a rate of 10 1050 CFM conveying air which will be vented thru a ouse which will result in full compliance. red in this application (Construction Permit Application Only) rch 1989 Completion of Construction Universely
St Co fo Ir	will be pneumation tons/hr. Using 288 sq. ft. baghor the chedule of project cover that of Construction Main the control of individual components of formation on actual cosermit.)	cally loaded from railcars or trucks at a rate of 10 1050 CFM conveying air which will be vented thru a cuse which will result in full compliance. The completion of Construction Permit Application Only The completion of Construction Unit 1989 The completion of Construction Unit 1989
St Co fo Ir	will be pneumation tons/hr. Using 288 sq. ft. baghor the chedule of project cover that of Construction Main the control of individual components of formation on actual cosermit.)	cally loaded from railcars or trucks at a rate of 10 1050 CFM conveying air which will be vented thru a cuse which will result in full compliance. The in this application (Construction Permit Application Only) The completion of Construction on the stimuted coets only Solution of the project serving pollution control purposes. The shall be furnished with the application for operation
St Co fo Ir	will be pneumation tons/hr. Using 288 sq. ft. baghor the chedule of project cover that of Construction Main the control of individual components of formation on actual cosermit.)	cally loaded from railcars or trucks at a rate of 10 1050 CFM conveying air which will be vented thru a cuse which will result in full compliance. The in this application (Construction Permit Application Only) The completion of Construction on the stimuted coets only Solution of the project serving pollution control purposes. The shall be furnished with the application for operation
St Co fo Ir	will be pneumation tons/hr. Using 288 sq. ft. baghor the chedule of project cover that of Construction Main the control of individual components of formation on actual cosermit.)	cally loaded from railcars or trucks at a rate of 10 1050 CFM conveying air which will be vented thru a cuse which will result in full compliance. The in this application (Construction Permit Application Only) The completion of Construction on the stimuted coets only Solution of the project serving pollution control purposes. The shall be furnished with the application for operation
St. Co for pre-	will be pneumatic tons/hr. Using 288 sq. ft. bagho chedule of project cover tert of Construction Man costs of pollution control or individual components aformation on actual cost ermit.) Estimated cost of	cally loaded from railcars or trucks at a rate of 10 1050 CFM conveying air which will be vented thru a cuse which will result in full compliance. The in this application (Construction Permit Application Only) The completion of Construction on the stimuted coets only Solution of the project serving pollution control purposes. The shall be furnished with the application for operation

	this is a new source or major modification, snawer the following ques	tions.
•	Is this source in a non-attainment area for a particular pollutant?	Yes
	a. If yes, has "offset" been applied?	No
	b. If yes, has "Lowest Achievable Emission Rate" been applied?	No
	c. If yes, list non-attainment pollutants. Particulates	
•	Does best available control technology (BACT) apply to this source? If yes, see Section VI.	No
•	Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	No
•	Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	No
•	Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) spply to this source?	<u>No</u>
	"Reasonably Available Control Technology" (RACT) requirements apply this source?	Yes
	a. If yes, for what pollutants?Particulates	

b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

	Contamin	ants	Utilization		
Description	Type	% Wt	Rate - 1bs/hr	Relate to Flow Diagram	
Limestone	Particulate	·	20,000	Flow Chart Attached	
and the second of the second o					

A .	Process	Rate.	i f	applicable:	(See	Section V	_	Item	1 3	ì
	riucess	nate.	4,	annii canie:	(366	Jection A	•	4 L C 10	- 4	,

1.	Total Process	Input	Rate	(lbs/hr):20,000#/hr. To DC BIN loading rate	
		•			

2.	Product Weight	(lbs/hr):	same	•

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of	Emiss	ionl	Allowed ² Emission Rate per	Allowable ³ Emission		tial ⁴	Relate to Flow
Contaminant	Maximum Actual lbs/hr T/yr		Rule 17-2	lbs/hr	lbs/yr	T/yr	Diagram
Limestone Dust	.27	.49	N/A	N/A	270	491	See Chart
				.			
			·				

¹See Section V, Item 2.

²Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard.

⁴Emission, if source operated without control (See Section V, Item 3).

). Control Devices: (See Section V, Item) .	Control	Devices:	(See Section	٧,	Item	4
--	-----	---------	----------	--------------	----	------	---

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Ultra ·				
100-C-24-III	Particulate	99%+	Unknown	Estimate
·				

E. Fuels N/A

Fuel Analysis:

	Consum	ption*	
Type (Be Specific)	avq/hr	max./hr	Maximum Heat Input (MMBTU/hr)

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Percent Sulfur:		Percent Ash:
Density:	lbs/gal	Typical Percent Nitrogen:

Heat Capacity: ______ BTU/1b _____ BTU/gal

Other Fuel Contaminants (which may cause air pollution):

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average _____ Maximum _____

G. Indicate liquid or solid wastes generated and method of disposal.

Stack Heig	ht:	4.5		ft. S	tack Diamete	r: <u>8" [</u>)IAft.
Gas Flow R	ate: 105	0ACFM_1	050	_DSCFM G	as Exit Temp	erature: Am	nbient•F.
Water Vapo	r Content:	Ambient		% v	elocity:	50.0	FP\$
		SECT	ION IV:	INCINERAT	OR INFORMATI	(GN	
Type of Waste							Type VI (Solid By-prod.)
Actual lb/hr Inciner- ated							
Uncon- trolled (lbs/hr)							
Description	n of Waste	·					,
Total Weig	ht Inciner	ated (lbs/h	r)		_ Design Cap	acity (lbs/	hr)
Approximat	e Number o	f Hours of	Operation	per day	day/	/wk	wks/yr
lanufactur:	er						
Date Const	ructed			Model	No		
	<u> </u>		 	· · ·	<u> </u>		
		Volume (ft) ³		/hr)	Type Fuel	BTU/hr	Temperature (°F)
Primary C	hamber				``		
Secondary							
		ft.	Stack Dia	mter:	"	Stack T	emp
las Flow R	ste:		_ACFM		DSCFM*	Velocity: _	FP:
•If 50 or a	more tona		ign capac	ity, subm	it the emiss		n grains per stan-
				•			
Type of po	llution ed	ntrol devic	e: []C	yclone [] Wet Scrub	ber [] Af	terburner

DER Form 17-1.202(1) Effective November 30, 1982

Brief	description of operating characteristics of control devices:
	Pulse-Jet Baghouse
	ate disposal of any effluent other than that emitted from the stack (scrubber water, etc.):
:	All collected material is returned to Process.
_	

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

SECTION V: SUPPLEMENTAL REQUIREMENTS (ATTACHED)

Please provide the following supplements where required for this application.

- 1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emisations = potential (1-efficiency).
- 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of air-borne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

DER Form 17-1.202(1) Effective November 30, 1982

9.	The appropriate application fee in a made payable to the Department of Env	ccordance with Rule 17-4.05. The check should be vironmental Regulation.
10.	With an application for operation pestruction indicating that the source permit.	ermit, attach a Certificate of Completion of Conce was constructed as shown in the construction
	SECTION VI: BEST A	AVAILABLE CONTROL TECHNOLOGY
Α.	Are standards of performance for new applicable to the acurce?	stationary sources pursuant to 40 C.F.R. Part 6
	[X] Yes [] No	
	Contaminant	Rate or Concentration
	·	· · · · · · · · · · · · · · · · · · ·
в.	Has EPA declared the best available yes, attach copy)	control technology for this class of sources (I
	[] Yes [] No N/A	
	Conteminant	Rate or Concentration
	•	·
с.	What emission levels do you propose a	as beat available control technology? N/A
	Contaminant	Rate or Concentration
	·	
D.	Describe the existing control and tre	eatment technology (if any). N/A
	1. Control Device/System:	2. Operating Principles:
	3. Efficiency:*	4. Capital Costs:
*Ex	plain method of determining	
	Form 17-1.202(1) ective November 30, 1982 P	Page 8 of 12

	5.	Useful Life: N/A		6.	Operating Costs:	
	7.	Energy:		8.	Maintenance Cost:	
	9.	Emissions:			•	
		Contaminant	,		Rate or Concentration	
						_
	10.	Stack Parameters N/A				
	8.	Height:	ft.	b.	Diameter:	ft.
	c.	Flow Rate:	ACFM	d.	Temperature:	۰F.
	е.	Velocity:	FPS			
E.		cribe the control and treatment additional pages if necessary).	techr	olog	y available (As many types as applica	able
	1. E	EPA has determined that BACT	for	thi	s source is a fabric filter.	
	a.	Control Device:		ь.	Operating Principles:	
	c.	Efficiency: 1 N/A		d.	Capital Cost:	
	e.	Useful Life:		f.	Operating Coat:	
	g.	Energy: ²		h.	Maintenance Cost:	
	i.	Availability of construction ma	teria:	ls an	d process chemicals:	
	j.	Applicability to manufacturing	proces	808:		
	k.	Ability to construct with contradition proposed levels:	ol de	vice	, inatall in available space, and ope	erat
	2.					
	8.	Control Device:		ь.	Operating Principles:	
	c.	Efficiency: 1 N/A		d.	Capital Cost:	
	е.	Useful Life:		f.	Operating Cost:	
	g.	Energy: ²		h.	Maintenance Cost:	

Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: Operating Principles: N/A Efficiency: 1 d. Capital Cost: Useful Life: Operating Cost: Energy: 2 h. Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 4. N/AControl Device: Operating Principles: **b**. Efficiency: 1 Capital Costs: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: g. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: 1. Control Device: 2. Efficiency: 1 N/A3. Capital Cost: 4. Useful Life: 5. Operating Cost: Energy: 2 7. Maintenance Cost: Manufacturer: 9. Other locations where employed on similar processes: a. (1) Company: (2) Mailing Address: (3) City: (4) State: IExplain method of determining efficiency. ²Energy to be reported in units of electrical power - KWH design rate.

Page 10 of 12

DER Form 17-1.202(1)

Effective November 30, 1982

	(5) Environmental Manager:	N/A							
	(6) Telephone No.:								
	(7) Emissions: 1								
	Contaminant			F	late or	Conce	ntrati	on .	
	(8) Process Rate:1								
	b. (1) Company: N/A								
	(2) Mailing Address:								
	(3) City:		(4) St	ate:					
	(5) Environmental Manager:						•		
	(6) Telephone No.:								
	(7) Emissions: ¹								
	Contaminant			F	Rate or	Conce	ntrati	.on	
	(8) Process Rate: 1				<u>.</u>				
	10. Reason for selection and de	escriptio	n of syst	ems:					
1 _{App} ava	licant must provide this informilable, applicant must state the	aation wh e reason(en availa s) why.	able.	Shoul	d this			ot b
	SECTION VII - PR	EVENTION	OF SIGNIF	FICANT	DETERI	ORATIO	N N/	Α	
Α.	Company Monitored Data								
	lno. sites	TSP		()	502* _		<u> </u>	/ind spd/d	ir
	Period of Monitoring	month /	day yes	to	month	/ day	/ year		
	Other data recorded								
	Attach all data or statistical	summaries	to this	applic	eation.				
*Spe	cify bubbler (B) or continuous	(c).							
	Form 17-1.202(1) ective November 30, 1982	Page	11 of 12	2					

	2. Instrumentation, Field and La	boratory N/A
	a. Was instrumentation EPA refer	enced or its equivalent? [] Yes [] No
	b. Was instrumentation calibrate	d in accordance with Department procedures?
	[]Yes []No []Unknown	
в.	Meteorological Data Used for Air	Quality Modeling N/A
	1Year(s) of data from	nth day year month day year
	2. Surface data obtained from (1	ocation)
	3. Upper air (mixing height) dat	a obtained from (location)
	4. Stability wind rose (STAR) da	ta obtained from (location)
c.	Computer Models Used N/A	
	1.	Modified? If yes, attach description.
		Modified? If yes, attach description.
		Modified? If yes, attach description.
	•	Modified? If yes, attach description.
		runa showing input data, receptor locations, and prin-
D.	Applicants Maximum Allowable Emis	sion Data N/A
	Pollutant Emis	sion Rate
	TSP	grams/sec
	502	grams/sec
Ε.	Emission Data Used in Modeling	
	Abbach link of emission neurons	

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

- F. Attach all other information supportive to the PSD review.
- G. 'Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.
- H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

SECTION V LIMESTONE DC BIN

1. Process Rate

Loading rate from railcars = 20,000 LBS /HR.

2. Controlled Emissions Estimate

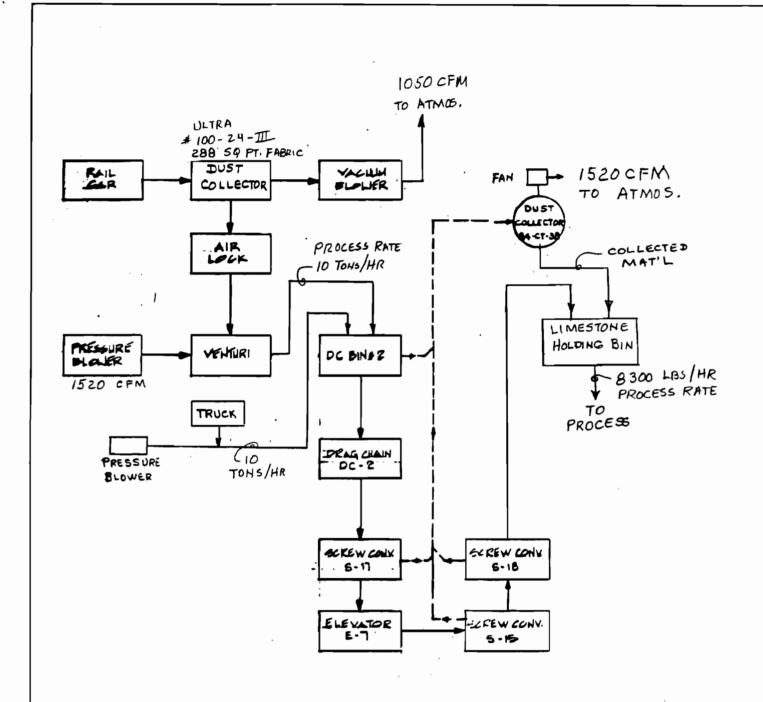
.03 GRS/DSCF x 1050 DSCFM x 60 ÷7000 = .27 LB/HR. TONS/YR = .27#/HR x 3640 HRS ÷ 2000 = .49 T/YR

3. Uncontrolled Potential Emissions Estimate

Estimated inlet grain loading = 30 GRS/DSCF 30 GRS/DSCF x 1050 DSCFM x 60 ÷ 7000 = 270 LBS/HR.

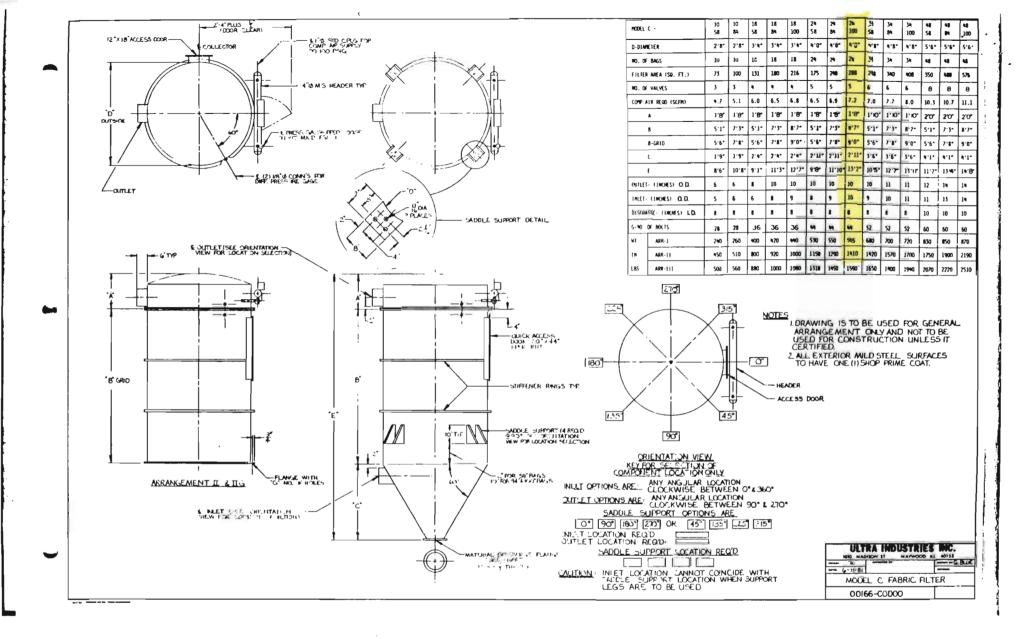
TONS/YR = 270 #/HR x 3640 HRS ÷ 2000 = 491 TONS/YR

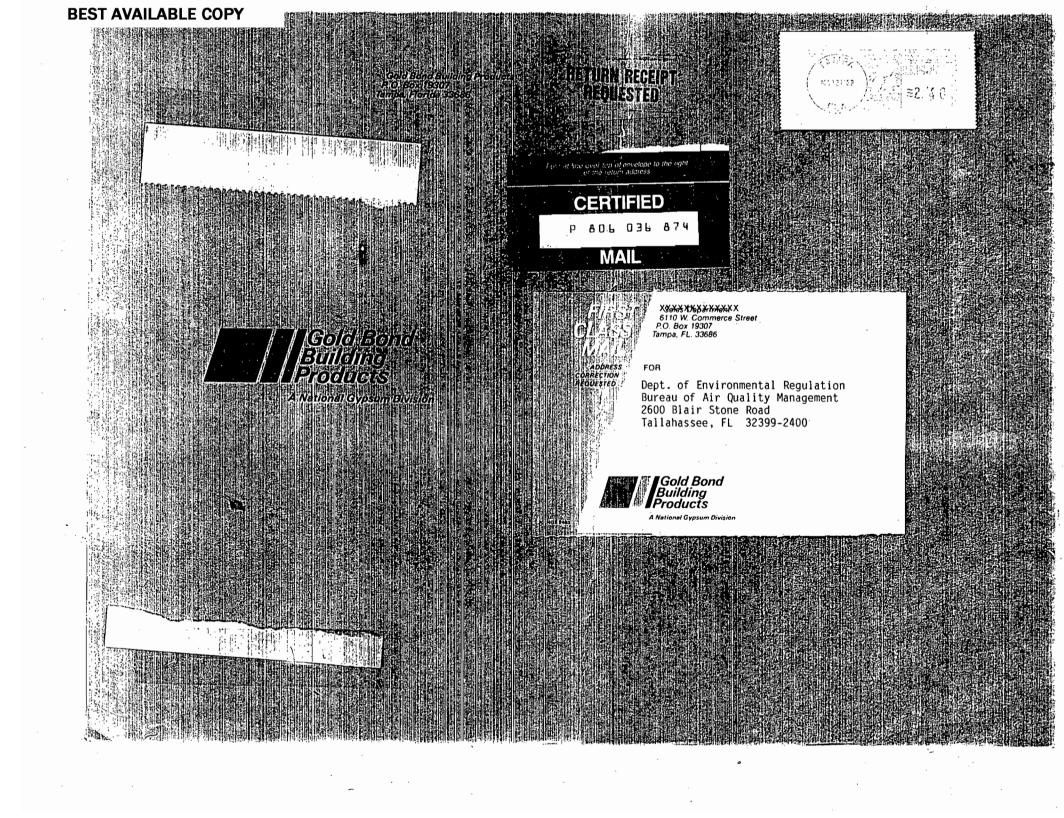
- 4. Baghouse Air/Cloth Ratio = 1050/288 = 3.6:1
- 5. Typical tests (EPA Method 5) made on similar baghouse have resulted in 99%+ efficiencies.
- 6. Flow chart attached.
- 7. Plot plan (plant location) attached.
- 8. Plot plan (equipment location) attached.



LIMESTONE PROCESS FLOW CHART

	REV	BY	DATE	DESCRIPTION
Gold Bond Building Products				ESTONE DC BIN HOLDING BIN
Products	SCAL	E		DATE 03 - 21 - 89
A National Gypsum Division	DRAN	٧N	DC	TAMPA
2001 Rexlord Road Charlotte, North Carolina 28211	CHE	ÇK		SK 032189 REV.
	APP) .		21.032121
	PRO	J.		





out man.

PM 3-29-89 Charlotte, N.C.



March 28, 1989

1147611 20, 1909

Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation Southwest District 4520 Oak Fair Blvd. Tampa, Florida 33610-7347

Hillsborough County Environmental Protection Commission 1410 North 21st Street Tampa, Florida 33605

Re: Joint Compound Production Line

Permit Numbers: AC 29-156217 AC 29-156221 AC 29-156218 AC 29-156223 AC 29-156219 AC 29-156224 AC 29-156220

SPECIFIC CONDITION - #3 as follows is a requirement for the permit:

- Calibrated devices to continuously measure and record the following process variables shall be installed.
 - a. The hourly rate that limestone is loaded into the limestone DC Bin No. 2 (AC 29-156217).
 - b. The hourly rate that polystyrene peanuts are ground into beads polystyrene grinding and storage system (AC 29-156218).
 - c. The hourly rate of dry powder product output from the dry mixer (AC 29-156220).
 - d. The hourly rate of wet redi-mix product output from the wet mixer (AC 29-156221).

Each device and recorder shall be recalibrated at least annually.

We have been unable to locate a device or devices that will perform the tasks exactly as described. We intend to use plant production records to provide the information for the above conditions. These records will show the total product or production weights and the hours operated.

RECEIVED

MAR 31 1989

DER-BAQM

Gold Bond Building Products 2001 Rexford Road Charlotte, North Carolina 28211





Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Address Correction Requested

Anthritational desirability of the American Ameri

Production records are essential to our process and we are confident that they will be reliable in determining the hourly rates, and will be readily available at any and all times.

If you have any questions, please call.

Sincerely,

D. B. Collins

Environmental Engineer

DBC/mmm

cc: R. G. Moore

Tampa Plant Mgr.

E. J. Reich

Chief Mech. Eng.

Mike Harley 3-31-89 Agr

274 010 414

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL (See Reverse)

794	Muset tcR. G. Moore		
480	Plant_Mgr.		
985-	Gölda Bond Building	Products	
× U.S.G.P.O. 1985-480-794	P.O. Box 19307 F.O. state and ZIP Code Lampa, FL 33616		
U.S.G	Postage	S	
*	Certified Fee		
	Special Delivery Fee		
	Restricted Delivery Fee		
10	Return Receipt showing to whom and Date Delivered		
Form 3800, June 1985	Return Receipt showing to whom, Date, and Address of Delivery		
, Ju	TOTAL Postage and Fees	S	
3800	Postmark or Date		ı
Ē	mailed: 3/30/89		. !
	Permits: AC 29-15621		
S	-15622	:3 & -156224	4

DOMESTIC RETURN RECEIPT Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return rebeipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

2.

Restricted Delivery SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Insured
COD
Return Receipt
for Merchandise Always obtain signature of addressee 8. Addressee's Address (ONLY if requested and fee paid) ☐ Restricted Delivery (Extra charge) or agent and DATE DELIVERED P 274 010 414 4. Article Number Type of Service:

Registered

Certified
Express Mail 212-865 * U.S.G.R. 0.1198 Gold Bond Building Products PS Form 3811, Mar. 1988 3. Article Addressed to: Signature - Address Mr. R. G. Moore Tampa, FL 33616 P.O. Box 19307 Plant Mgr. Date of Signatur رن **×** ø.



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

March 22, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. R. G. Moore Plant Manager Gold Bond Building Products. P. O. Box 19307 Tampa, Florida 33616

Dear Mr. Moore:

Extension of Expiration Date, Joint Compound Production Line, AC 29-156217 through AC 29-156221, and AC 29-156223 through AC 29-156224

The Department has received and reviewed Gold Bond's March 7, 1989, request for an extension of the expiration date of the above referenced permits. The Department grants the extension of time so that you may complete construction, achieve maximum permitted operation rates, perform compliance tests, and submit applications for operation permits.

The following shall be changed and added to the permit:

Expiration Date Change:

From: June 9, 1989

To: September 7, 1989

Attachments to be Added:

Gold Bond's extension request, dated March 7, 1989, received March 10, 1989.

letter shall be attached to the construction permits, AC 29-156217 through AC 29-156221, and AC 29-156223 through AC 29-156224; and shall become a part of the permits.

Dale Twachtmann

Secretary

DT/mdh

- D. Collins, Gold Bond Building Products
- P. Chheda, P.E.
- B. Thomas, SW District
- J. Campbell, HCEPC

Miles Harley Reading File 3-30-89 Ran Pan Houmere



A National Gypsum Division

Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation Southwest District 4520 Oak Fair Boulevard Tampa, Florida 33610-7347 RECEIVED MAR 10 1989 DER-BAQM

Hillsborough County Environmental Protection Commission 1410 North 21st Street Tampa, Florida 33605

RE: Joint Compound Production Line:

Permit Numbers: AC 29-156217

AC 29-156217 AC 29-156221 AC 29-156218 AC 29-156223 AC 29-156219 AC 29-156224

AC 29-156220

Expiration Date: June 9, 1989

Dear Sir:

In order to comply with specific condition No. 12, we are requesting an extention of the above expiration date. To complete construction, achieve maximum permitted rates, perform compliance tests, and submit applications for operating permits we estimate an additional 90 days will be needed.

This letter is also to notify you that we plan to conduct compliance tests on the above equipment on or about April 3, 1989. The exact date will be confirmed as soon as possible.

Sincerely,

D. B. Collins

Environmental Engineer

cc: R. G. Moore - Tampa Plant Manager

DBC/elw

orped: The Muley



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

For Ro	outing To Othe	or Than The Addressee	
To:	111	Location:	
To: 7 - 13 4	F7	Location:	<u></u> -
To:		Location:	
From:		Date:]

Interoffice Memorandum

MAR 24 1989

Dale Twachtmann

FROM:

Steve Smallwood (***)

Office of the Secretary,

Approval of a Construction Permit Amendment for Gold Bond

Building Products

State Construction AC 29-156217 through Numbers: AC 29-156221, and AC 29-156223

through AC 29-156224

DATE: March 22, 1989

Attached for your approval and signature is a letter prepared by Central Air Permitting that will amend the construction permits. for a joint compound production line by extending the expiration dates for a period of 90 days. The extension will allow the applicant to complete construction, achieve maximum permitted operation rates, perform compliance tests, and submit applications for operation permits.

The facility is located in Tampa, Hillsborough County, Florida. The amendment is not controversial.

I recommend your approval and signature.

SS/mdh

attachments

P 274 007 610

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL (See Reverse)

× U.S.G.P.O. 1985-480-794	Street and No. B. 2001 Rexford Rd.	Gold Bo	¬
i.P.O. 1	P.O. State and ZIP Code Charlotte, NC 2821		
U.S.G	Postage	S	
*	Certified Fee		
	Special Delivery Fee		
	Restricted Delivery Fee		
	Return Receipt showing to whom and Date Delivered		
198	Return Receipt showing to whom, Date, and Address of Delivery		
June	TOTAL Postage and Fees	S	
800,	Postmark or Date	<u>-</u>	
S Form 3800, June 1985	Mailed: 3-24-89		

	SENDER: Complete items 1 and 2 when additional services are desired, and complete items	services are desired, and complete items
	Tut your address in the "NETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to for additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested. □ Show to whom delivered, date, and addressee's address. □ □ Restricted Delivered.	Se side. Failure to do this will prevent this rovide you the name of the person delivered services are available. Consult postmaster ted.
	3. Article Addressed to:	Extra charge)
	Mr. D. B. Collins	P 274 007 610
	Environmental Engineer	Type of Service:
_	Gold Bond Building Products	Registered Insured
	2001 Rexford Road	
_	Charlotte, NC 28211_3/08	Express Mail Neturn Receipt for Merchandise
	0.10.1111.00.00.00.00.00.00.00.00.00.00.	Always obtain signature of addressee
_	5. Signature - Address	or agent and DATE DELIVERED.
	X X	8. Addressee's Address (ONLY if requested and fee mid)
	6. Signature — Agent	(mm) and man and a
	Start Osta	
	Sale of Delivery	
کھ	PS Form 3811. Mar 1988 + 11.5.0.5.	
	U.S.G.P.O. 1988-212-865	365 DOMESTIC RETURN RECEIPT
		j



Florida Department of Environmental Regulation

Twin Towers Office Bldg. 9 2600 Blair Stone Road 9 Tallahassee, Florida 32399-2400 Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary

March 22, 1988

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. D. B. Collins Environmental Engineer Gold Bond Building Products 2001 Rexford Road Charlotte, North Carolina 28211-3498

Dear Mr. Collins:

Return of Confidential Information, Joint Compound Production Line, AC 29-156217 through AC 29-156221, and AC 29-156223 through AC 29-156224

Enclosed are documents that you furnished to us during our review of your applications for the above referenced permits. returning these documents because you indicated that they were of a confidential nature. Since the construction permits have been issued, we have no further reason to retain these documents. ask that you maintain this confidential information in a permanent file which can be made available to the Department should the need for further examination arise. Thank you for making this information available to assist in the review of your permit applications.

Please call Mr. Bill Thomas at (904) 488-1344 or write to me at the above address, if we can be of assistance.

Sincerely,

C. H. Fancy, P.E. Deputy Bureau Chief Bureau of Air Quality Management

CHF/mdh

cc:

- D. Collins, Gold Bond Building Products
- P. Chheda, P.E.
- B. Thomas, SW District
- J. Campbell, HCEPC

pm 3-8-83 Charlotte, NC file copy

March 7, 1989



A National Gypsum Division

Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation Southwest District 4520 Oak Fair Boulevard Tampa, Florida 33610-7347 RECEIVED

MAR 10 1989

DER BACK

Hillsborough County Environmental Protection Commission 1410 North 21st Street Tampa, Florida 33605

RE: Joint Compound Production Line:

Permit Numbers: Aĉ 29-156217 AC 29-156221 AC 29-156218 AC 29-156223 AC 29-156219 AC 29-156224

AC 29-156220 Expiration Date: June 9, 1989

Dear Sir:

In order to comply with specific condition No. 12, we are requesting an extention of the above expiration date. To complete construction, achieve maximum permitted rates, perform compliance tests, and submit applications for operating permits we estimate an additional 90 days will be needed.

This letter is also to notify you that we plan to conduct compliance tests on the above equipment on or about April 3, 1989. The exact date will be confirmed as soon as possible.

Sincerely,

D B Collin

D. B. Collins

Environmental Engineer

cc: R. G. Moore - Tampa Plant Manager

DBC/elw

copied: m. Harley

Ferry Campbell, EPCHC) 3-30-89 ABru (Q amendment ples dated 8-22-89)
P. Chheda, P.E.

Gold Bond Building Products 2001 Rexford Road Charlotte, North Carolina 28211





Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Address Correction Requested

<u>հահավահուհերհահահիսհահական</u>



Florida Department of Environmental Regulation

Southwest District ● 4520 Oak Fair Boulevard ● Tampa, Florida 33610-7347 ● 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary Richard Garrity, Deputy Assistant Secretary



February 23, 1989DER-BAQE.

Mr. Mike Harley
Central Air Permitting Staff
Division of Air Resources Management
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road, Suite 306F
Tallahassee, FL 32399-2400

Dear Mr. Harley:

Re: Joint Compound Production Line Gold Bond Building Products' Construction Permits

We have reviewed the technical evaluation for the above mentioned permits and concur with your evaluation, specific conditions, etc. for the project. As such, we do not have any comments.

Sincerely,

ø. Harry Kerns, P.E. District Air Engineer

JHK/riq

COMMISSION

PHYLLIS BUSANSKY RODNEY COLSON PAM IORIO RUBIN E. PADGETT JAN KAMINIS PLATT HAVEN POE JAMES D. SELVEY



ROGER P. STEWART DIRECTOR

1900 - 9th AVE TAMPA, FLORIDA 33605

TELEPHONE (813) 272-5960

February 15, 1989

RECEIVED FEB 20 1989

DER - BAQM

Mr. Mike Harley
Central Air Permitting Staff
Division of Air Resources Management
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road, Suite 306F
Tallahassee, FL 32399-2400

Dear Mr. Harley:

The staff of the Environmental Protection Commission of Hillsborough County has reviewed the Technical Evaluation and Preliminary Determination in regards to the Joint Compound Production Line to be constructed by Gold Bond Building Products at 6110 Commerce Street in Tampa.

Our review has concluded that our office has no problems with any of the contents of the determination. Therefore, we do not request any changes to the proposed permits.

If you have any questions, please call me or Victor San Agustin at SUNCOM 543-5530.

Sincerely,

Arthur J. Wells

arthur J. Wells

Air Permit Engineer

bb

cc: J. Harry Kerns, FDER

Dear Ver. Harley,

I'm sending you

The proof of publication
for The Joint Compound

Process Ac permit.

Tranks, Rama Izer

HOPPARTMENT OF ENVIRONMENTAL REGULATION ROUTING AND TRANSMITTAL SLIP dnitie TO: INAME OFFICE LOCATION MR MIKE HARLEY BARM Date Tallalass & DER-BAUM REMARKS: INFORMATION Review & Return Review & File loof of publication Initial & Forward Bridge Products a DISPOSITION. State Compound Renew & Respond Prepare Response For My Signature For Your Signature Let's Discuss Set Up Meeting -Firestigate & Repor Initial & Forward Distribute Concurrence For Processing Initial & Return RAMA IYER

le copy
State of Florida County of Hillsborough County of Hillsborough County of Hillsborough County County of Hillsborough County of Hillsboroug
Before the undersigned authority personally appeared G. T. Gleason, who on oath says that he is Controller of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a LEGAL NOTICE in the matter of NOTICE OF INTENT TO ISSUE
Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa, in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm, or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper. Sworm to and subscribed before me, this ONE Funds Sittle of Florida Regional Land (1973)
Bondad Thru Troy Fain - Insurance In

CC.

ment Permit File Number and the county in which the prolect is proposed: (b) A statement of how and when each petitioner received

notice of the Department's action or proposed action:

name and address, the Depart-

(c) A statement of how each petitioner's substantial Department's action or proposed action:

(d) A statement of the mate rial facts disputed

State of Florida

Department of

Environmental Regulation Notice of Intent to Issue

The Department of Environ

mental Regulation hereby

Issue permits to Gold Bond Building Products, P.O. Box

19307, Tampa, Florida 33616, to construct/install a loint

compound production line with the capacity to produce

6.618 lbs./hr. of wet redi-mix

loint compound and 5,735

lbs./hr. of dry powder joint

compound. The proposed joint

compound production line con-

sists as a joint compound lime-stone DC Bin No. 2, a

polystyrene grinding and stor-age system, a polystyrene transport system and feed

hopper, a dry mixer, a wet

mixer, a dry material bagging

system and limestone slio

with holding systems, and a

limestone slio pneumatic unloading system. The proposed

sources of particulate emis-sions will be controlled by

seven baghouses. The pro-posed project will be located at Gold Bond Building Prod-

ucts' existing Port Tampo facil-ity, 6110 Commerce Street,

Tampa, Hillsborough County

Florida. The universal trans

verse mercator coordinates are Zone 17, 347.3 km East,

3082.7 km North. The Depart-

ment is issuing this intent to

issue for the reasons stated in the Technical Evaluation and

A person whose substantial

Interests are affected by the Department's proposed per-

mitting decision may petition

for an administrative proceed-

ings (hearing) in accordance

with Section 120.57, Florida Statutes. The petition must

contain the information set

below and must be filed

(received) in the Office of Gen-eral Counsel of the Depart-

ment at 2600 Blair Stone Road

Taliahassee, Florida 32399-2400, within fourteen (14) days

of publication of this notice.

Petitioner shall mall a copy of

the petition to the applicant at

the address indicated above at the time of filing. Failure to

file a petition within this time period shall constitute a walv-

er of any right such person

may have to request an ad-

ministrative determination (hearing) under Section 120.57, Florida Statutes.

the following information:

The Petition shall contain

(a) The name, address, and

telephone number of each

petitioner, the applicant's

Preliminary Determination.

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or ment's action or proposed action: and

(a) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed ac-

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial inter ests will be affected by any decision of the Department with regard to the appli cations have the right to peti tion to become a party to the proceeding. The petition must conform to the regulrements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Fallure to peti tion within the ollowed time frame constitutes a walver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approvat of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C. The applications are avai-

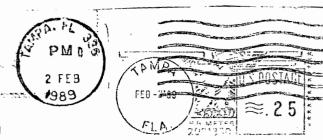
lable for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at: Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahossee, Florida 32399-2400 Dept. of Environmental Regulation Southwest District 4520 Oak Fair Boulevard Tampa, Florida 33610-7347 Hillsborough County **Environmental Protection**

Commission

1410 North 21st Street Tampa, Florida 33605 Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Depart-

ment's final determination.

Gold Bond Building Products P. O. Box 19307 Tampa, Florida 33686



RECEIVED

FEB 6 1989



A National Gypsum Division

DER - BAQM

Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, FL 32399-2400

Attn: C. H. Fancy

հոհականին անհանականին հունան

P 274 007 565

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Payers) (See Reverse)

× U.S.G.P.O. 1985-480-794	Sent to Mr. R. G. Moore, G	old Bond
985-4	Street and No. P.O. Box 19307	Bldg. Prod.
P.O. 1	P.O., State and ZIP Code Tampa, FL 33616	
U.S.G	Postage	s
*	Certified Fee	
	Special Delivery Fee	
	Restricted Delivery Fee	
50	Return Receipt showing to whom and Date Delivered	
e 198	Return Receipt showing to whom, Date, and Address of Delivery	
, Je	TOTAL Postage and Fees	s
S Form 3800, June 1985	Postmark or Date Mailed: 1-26-89 Permit: AC 29-15621 -20, -21, -	

	SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.	services are desired, and complete items
	Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster	se side. Failure to do this will prevent this ovide you the name of the person delivered services are available. Consult postmaster
,	for fees and check box(es) for additional service(s) request . Show to whom delivered, date, and addressee's ad (Extra charge)	ed. dress. 2. \square Restricted Delivery (Extra charge)
<u> </u>	Article Addressed to:	4. Article Number P 274 007 565
	Gold Bond Building Products	Type of Service:
	P. 0. Box 1930/ Tampa, Florida 33616	XX Certified COD Express Mail for Merchandise
Pag. 95	0	Always obtain signature of addressee or agent and DATE DELIVERED.
1 2	5. Signature – Address X	8. Addressee's Address (ONLY if requested and fee paid)
	6. Signature - Agent XX) Juny H. Bliff	à,
-	7. Date of Defivery JAN 3 0 1989	
<u> </u>	PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865	-865 DOMESTIC RETURN RECEIPT



Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary -

John Shearer, Assistant Secretari

January 23, 1989

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. R. G. Moore, Plant Manager Gold Bond Building Products P. O. Box 19307 Tampa, Florida 33616

Dear Mr. Moore:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permits for Gold Bond Building Products to construct/install a joint compound production line with the capacity to simultaneously produce 6,618 lbs./hr. of wet redi-mix joint compound and 5,735 lbs./hr. of dry powder joint The proposed joint compound production line consists of a joint compound limestone DC Bin No. 2, a polstyrene grinding and storage system, a polystyrene transport system and feed hopper, a dry mixer, a wet mixer, a dry material bagging system and limestone silo with holding systems, and a limestone silo pneumatic unloading system.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,

Deputy Chief

Bureau of Air Quality

Management

CHF/mh

Attachments

B. Thomas, SW Dist

- D. Collins, Gold Bond Bldg. Products
- P. Chheda, P.E.
- J. Campbell, HCEPC

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of Applications for Permits by:

Gold Bond Building Products
P. O. Box 19307
Tampa, Florida 33616

DER File Nos. AC 29-156217 AC 29-156218 AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223 AC 29-156224

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue permits (copies attached) for the proposed project as detailed in the applications specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Gold Bond Building Products, applied on October 17, 1988, to the Department of Environmental Regulation for permits to construct/install a joint compound production line with the capacity to simultaneously produce 6,618 lbs./hr. of wet redi-mix joint compound and 5,735 lbs./hr. of dry powder joint The proposed joint compound production line consists compound. ofa joint compound limestone DC Bin No. 2, a polystyrene grinding and storage system, a polystyrene transport system and feed --- hopper, a dry mixer, a wet mixer, a dry material bagging system and limestone silo with holding systems, and a limestone silo pneumatic unloading system. The proposed sources of particulate emissions will be controlled by seven baghouses. The proposed project will be located at Gold Bond Building Products' `existing Port Tampa facility, 6110 Commerce Street, Tampa, Hillsborough County, Florida. The universal transverse mercator coordinates are Zone 17, 347.3 km East, and 3082.7 km North.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that air construction permits were needed for the proposed work.

Pursuant to Section 403.815, F.S., and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permits. The notice must be published one time only within 30 days, in the

legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department, at the address specified, within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permits.

The Department will issue the permits with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the notice or within 14 days of receipt of this intent, whichever occurs first. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the Following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on January 26,1989

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to \$120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Martha Wise

Date

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applicant have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

Copies furnished to:

B. Thomas, SW Dist.

- D. Collins, Gold Bond Bldg. Products
- P. Chheda, P.E.
- J. Campbell, HCEPC

State of Florida Department of Environmental Regulation Notice of Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue permits to Gold Bond Building Products, P. O. Box 19307, Tampa, Florida 33616, to construct/install a joint compound production line with the capacity to produce 6,618 lbs./hr. of wet redi-mix joint compound and 5,735 lbs./hr. of dry powder joint compound. The proposed joint compound production line consists os a joint compound limestone DC Bin No. 2, a polystyrene grinding and storage system, a polystyrene transport system and feed hopper, a dry mixer, a wet mixer, a dry material bagging system and limestone silo with holding systems, and a limestone silo pneumatic unloading system. The proposed sources of particulate emissions will be controlled by seven baghouses. The proposed project will be located at Gold Bond Building Products' existing Port Tampa facility, 6110 Commerce Street, Tampa, Hillsborough County, Florida. The universal transverse mercator coordinates are Zone 17, 347.3 km East, 3082.7 km North. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;

- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applications have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

The applications are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation Southwest District 4520 Oak Fair Boulevard Tampa, Florida 33610-7347

Hillsborough County Environmental Protection Commission 1410 North 21st Street Tampa, Florida 33605

Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.

Technical Evaluation and Preliminary Determination

Gold Bond Building Products Hillsborough County

Joint Compound Production Line:

Joint Compound Limestone DC Bin No.2
Joint Compound Polystyrene Grinding and Storage System
Joint Compound Polystyrene Transport System and Feed Hopper
Joint Compound Dry Mixer
Joint Compound Wet Mixer
Joint Compound Dry Material Bagging and Limestone Silo Systems
Joint Compound Limestone Silo Unloading System

Permit Numbers
AC 29-156217
AC 29-156218
AC 29-156219
AC 29-156220
AC 29-156221
AC 29-156223
AC 29-156224

Florida Department of Environmental Regulation Bureau of Air Quality Management Central Air Permitting

January 19, 1989

I. Project Description

A. Applicant

Gold Bond Building Products
Division of National Gypsum Company
P. O. Box 19307
Tampa, Florida 33616

B. Project and Location

applicant proposes to relocate an existing compound production line from Dade County to Tampa. The joint compound production line consists of a joint compound limestone DC Bin No. 2 (AC 29-156217), a joint compound polystyrene grinding and storage system (AC 29-156218), a joint compound polystyrene transport system and feed hopper (AC 29-156219), a joint compound dry mixer (AC 29-156220), a joint compound wet mixer (AC 29-156221), a joint compound dry material bagging system and limestone silo with holding systems connected to a common main dust collector (AC 29-156223), and a joint compound limestone silo pneumatic unloading system (AC 29-156224). The joint compound production line will be located at Gold Bond Building Product's existing Port Tampa facility, 6110 Commerce Tampa, Hillsborough County, Florida. The universal transverse mercator (UTM) coordinates are Zone 17, 347.3 km 3082.7 km North. The Standard Industrial and Classification (SIC) Code for the joint compound production line to be located at this facility is to be 3275. The Standard Industrial Classification (SIC) Code for the processes presently located at this facility is also 3275. The application was received on October 17, 1988 and deemed complete on January 5, 1989.

C. Project Description and Controls

Gold Bond Building Products operates an existing facility in Tampa, Florida. The facility will be modified by installing a joint compound production line. This line will be used to produce both wet redi-mix and dry powder joint compounds for use in the building construction industry. The facility presently operates in Dade County pursuant to Dade County permit no. AP-0444-88C. The applicant proposes to move the existing production line from Dade to Hillsborough County. The applicant has told the Department that the only changes to the production line will be the installation of additional air pollution control equipment.

The applicant proposes to receive limestone by both rail and truck. The limestone will be air conveyed from rail cars and trucks to the limestone DC Bin No. 2 (AC 29-156217). The limestone will then be conveyed from the limestone DC Bin No. 2

(AC 29-156217) to the limestone silo (AC 29-156223) by a system consisting of a drag chain, screw conveyors, and a bucket elevator. The limestone silo (AC 29-156223) is also equipped with a pneumatic unloading system (AC 29-156224) for the receipt of limestone from trucks. The limestone will be discharged from the limestone silo (AC 29-156223) into a weigh tank that will service both the wet redi-mix and dry powder operations.

The wet redi-mix system (AC 29-156221) consists of a short weights bin, mixer, pumps, holding tank and a canning system. The limestone and other dry materials are loaded into the short weights bin and conveyed to the wet mixer via screw conveyor and bucket elevator. In the wet mixer, the dry materials are mixed with water and other liquid compounds. The wet "pastelike" product is pumped from the mixer to a holding tank. The wet "pastelike" product or redi-mix joint compound is pumped from the holding tank to a fill station where it is put in 5-gallon pails or 4-gallon cartons. The pails and cartons containing the finished product are sealed and marketed.

The dry powder system consists of a short weights bin (AC 29-156223), dry mixer (AC 29-156220), and dry material bagging system (AC 29-156223). The limestone and other dry materials are loaded into the short weights bin and conveyed to the dry mixer via screw conveyor and bucket elevator. The limestone is mixed with ground polystyrene and other materials in the dry mixer. The dry mixer dumps the mixed dry powder product into a hopper. The dry powder product is transported to the dry material bagging system via a screw conveyor. The finished product is bagged and marketed.

The particulate emissions from the joint compound production line are to be controlled by seven welded pulse jet baghouses manufactured by Flex-Kleen Corporation. The verbal and written information supplied by the applicant indicate that all of the potential points of emission including those where raw materials will be received and added to the process are to be controlled by one of the seven baghouses. The emissions from the limestone DC Bin No. 2 and associated pneumatic unloading system (AC 29-156217) will be controlled by a model 84-WRB-64-III baghouse with 678 square feet of filtration area. The flow to the baghouse will be 2300 DSCFM. The emissions from the joint compound polystyrene grinding and storage system (AC 29-156218) will be controlled by a model 58-BV-9-II baghouse with 65 square The flow to the baghouse will be 360 feet of filtration area. The emissions from the joint compound polystyrene DSCFM. feed (AC 29-156219) system and hopper will controlled by a model 58-BV-9-II baghouse with 65 square feet of The flow to the baghouse will be 360 DSCFM. filtration area. The emissions from the joint compound dry mixer (AC 29-156220) will be controlled by a model 58-BV-25-II baghouse with 180 square feet of filtration area. The flow to the baghouse will

be 700 DSCFM. The emissions from the joint compound wet mixer 29-156221) will controlled by a model be 58-BV-25-II baghouse with 180 square feet of filtration area. The flow to the baghouse will be 700 DSCFM. The emissions from the joint compound dry material bagging system and limestone silo with holding systems (AC 29-156223) will be controlled by the main dust collector, a model 84-RA-128-KD baghouse with 1357 square feet of filtration area. The flow to the baghouse will be 5120 The emissions from the joint compound limestone silo DSCFM. pneumatic unloading system (AC 29-156224) will be controlled by a model 84-CT-38-III baghouse with 403 square feet of filtration The flow to the baghouse will be 1520 DSCFM.

Gold Bond Building Products does not presently manufacture joint compound at the Port Tampa facility. The company has indicated that the installation of the joint compound production line will not affect the operation rates of any of the air pollution sources that are presently permitted to operate at the facility. The company proposes to operate all of the sources continuously (i.e., 8760 hours per year). But, the company proposes to limit the hours that the limestone DC Bin No. 2 (AC 29-156217) receives limestone from suppliers to 3640 hours per year. The proposed production line will have the capacity to simultaneously produce 6,618 lbs./hr. (28,987 tons/yr.) of wet redi-mix joint compound and 5,735 lbs./hr. (25,119 tons/yr.) of dry powder joint compound.

II. Rule Applicability

Gold Bond Building Product's Port Tampa facility is a major facility for emissions of particulate matter pursuant to F.A.C. Rule 17-2.100(112).

The proposed project is located in an area that is presently classified as unclassifiable for particulate matter less than 10 microns in diameter (PM_{10}) pursuant to F.A.C. Rule 17-2.430(1)(a) and as nonattainment for particulate matter pursuant to F.A.C. Rule 17-2.410(2)(a)1.

The proposed project is exempt from the review requirements of F.A.C. Rule 17-2.500, Prevention of Significant Deterioration (PSD). Specifically, F.A.C. Rule 17-2.500(2)(d)3. and 4. exempts this project from a full PSD review pursuant to F.A.C. Rule 17-2.500(5) because a significant increase in emissions of PM_{10} is not expected to occur.

The proposed project is exempt from the review requirements of F.A.C. Rule 17-2.510, New Source Review for Nonattainment Areas. Specifically, F.A.C. Rule 17-2.510(2)(d)4.a. exempts this project from a full nonattainment review pursuant to the provisions of F.A.C. Rule 17-2.510 (4) because a significant

increase in emissions of particulate matter is not projected to occur.

The proposed project is also subject to the general permitting requirements of F.A.C. Rule 17-2.210, Permits Required, and the requirements of F.A.C. Rule 17-2.520, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements.

Pursuant to F.A.C. Rule 17-2.650(2)(a)1., the seven proposed sources of particulate emissions are subject to the particulate emission limiting standards of F.A.C. Rule 17-2.650(2). The emission limiting standards in F.A.C. Rule 17-2.650(2) represent the application of reasonably available control technology (RACT) to sources of particulate matter.

The particulate emissions from the proposed joint compound Bin (AC 29-156217), joint compound limestone DC No. 2 polystyrene grinding and storage system (AC 29-156218), joint compound polystyrene transport system and feed hopper 29-156219), joint compound dry mixer (AC 29-156220), joint compound wet mixer (AC 29-156221), joint compound dry material bagging system and limestone silo with holding systems connected to a common main dust collector (AC 29-156223), and joint compound limestone silo pneumatic unloading system 29-156224) are subject to the emission limiting standards for materials handling, sizing, screening, crushing, and grinding operations in F.A.C. Rule 17-2.650(2)(c)11.b.(i) and (ii). visible emissions from these sources shall not exceed five (5) percent opacity. Since the particulate emissions from each of these sources are vented to an air pollution control device, the emissions shall not exceed 0.03 grains per dry standard cubic foot (gr./DSCF).

The proposed joint compound production line is also subject to the particulate emission limiting standards applicable to sources of unconfined emissions. F.A.C. Rule 17-2.610(3) requires the use of reasonable procedures to prevent unconfined emissions of particulate matter. In this case, the company will be required to implement reasonable "housekeeping" practices. The reasonable practices shall include but not be limited to clean-up of dust around the areas where materials are loaded, discharged, or bagged.

III. Summary of Emissions and Air Quality Analysis

A. <u>Summary of Emissions</u>

Based on the information supplied by the applicant, the only pollutant emitted by the proposed project will be particulate matter. The projected particulate emissions from each of the sources are as follows: (1) 0.60 lbs./hr. and 1.09 tons/yr. from

the proposed joint compound limestone DC Bin No. (AC 29-156217); (2) 0.09 lbs./hr. and 0.40 tons/yr. proposed joint compound polystyrene grinding and storage system (AC 29-156218), (3) 0.09 lbs./hr. and 0.40 tons/yr. from the proposed joint compound polystyrene transport system and feed hopper (AC 29-156219); (4) 0.18 lbs./hr. and 0.78 tons/yr. from the proposed joint compound dry mixer (AC 29-156220); (5) 0.18 lbs./hr. and 0.78 tons/yr. from the proposed joint compound wet mixer (AC 29-156221); (6) 1.30 lbs./hr. and 5.68 tons/yr. from the proposed joint compound dry material bagging system and limestone silo with holding systems connected to a common main dust collector (AC 29-156223); and (7) 0.40 lbs./hr. and 1.75 from the proposed joint compound limestone tons/yr. pneumatic unloading system (AC 29-156224). The installation of the joint compound production line is expected to increase particulate emissions from the facility by a total of 2.84 lbs./hr. and 10.88 tons/yr. This increase in emissions contemporaneous with a projected particulate emissions increase of 3.40 tons/yr. resulting from the issuance of air construction permit no. AC 29-147504 and the proposed issuance of air construction permit no. AC 29-155612. Therefore the total contemporaneous emissions increase pursuant to F.A.C. 17-2.500 and 17-2.510 will be 14.28 tons/yr.

B. Air Quality Analysis

Since the proposed project is exempt from the new source review requirements of F.A.C. Rules 17-2.500(5) and 17-2.510(4), an ambient air quality analysis is not required.

IV. Conclusion

Based on the information provided by Gold Bond Building the Department has reasonable assurance that the proposed joint compound production line as described in this evaluation and subject to the conditions proposed herein, will not cause or contribute to a violation of any ambient air quality standard or PSD increment, or violate any other Chapter technical οf provision 17-2 of the Florida Administrative Code.



Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2401

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:

Gold Bond Building Products

P. O. Box 19307 Tampa, FL 33616 Permit Numbers: AC 29-156217

AC 29-156218 AC 29-156219 AC 29-156220

AC 29-156221 AC 29-156223 AC 29-156224

Expiration Date: June 9, 1989

County: Hillsborough

Latitude/Longitude: 27° 52' 00"

82° 33' 00°

Project: Construction of a

Joint Compound Production Line

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. 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 Department and made a part hereof and specifically described as follows:

The construction of a joint compound production line with the capacity to produce 6,618 lbs./hr. (28,987 tons/yr.) of redi-mix joint compound and 5,735 lbs./hr. (25,119 tons/yr.) of dry powder joint compound. The joint compound production line consists of a limestone DC Bin No. 2 (AC 29-156217) Flex-Kleen 84-WRB-64-III baghouse, a polystyrene grinding storage system (AC 29-156218) with Flex-Kleen 58-BV-9-II baghouse, a polystyrene transport system and feed hopper (AC 29-156219) with Flex-Kleen 58-BV-9-II baghouse, a dry mixer (AC 29-156220) with Flex-Kleen 58-BV-25-II baghouse, a wet mixer (AC 29-156221) with Flex-Kleen 58-BV-25-II baghouse, a dry material bagging system and limestone silo with holding systems connected to a common main collector (AC 29-156223) with Flex-Kleen 84-RA-128-KD baghouse, and a limestone silo pneumatic unloading system (AC 29-156224) with Flex-Kleen 84-CT-38-III baghouse. The project is to be located at the Gold Bond Building Products Port Tampa facility, Tampa, Hillsborough County, Florida.

The construction and operation of the sources shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223

AC 29-156224

Expiration Date: June 9, 1989

Attachments are listed below:

C. H. Fancy's letter dated November 15, 1988.

- D. B. Collins' letter (with attachments) dated November 23, 1988 and received November 28, 1988.
- 3. E. J. Reich's letter (FAX) dated December 28, 1988 and received December 28, 1988.
- 4. D. B. Collins' letter dated December 29, 1988 and received January 5, 1989.
- 5. D. B. Collins' letter dated January 11, 1989 and received January 17, 1989.

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223

AC 29-156224

Expiration Date: June 9, 1989

rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

- 4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- 6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223

AC 29-156224

Expiration Date: June 9, 1989

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and

c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or revocation of this permit.

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223

AC 29-156224

Expiration Date: June 9, 1989

1. This permit is transferable only upon Department approval in

accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

- 12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain at the facility or other location designated by this permit records of monitoring information (including all calibration and maintenance records and all original strip recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified Department rule.
 - c. Records of monitoring information shall include:

PERMITTEE:
Gold Bond Building Products

Permit Numbers: AC 29-156217

AC 29-156218 AC 29-156219

AC 29-156219 AC 29-156220 AC 29-156221

AC 29-156223 AC 29-156224

Expiration Date: June 9, 1989

- the date, exact place, and time of sampling or measurements;

- the person responsible for performing the sampling or measurements;

the date(s) analyses were performed;

- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

SPECIFIC CONDITIONS:

- 1. The hours of operation for the polystyrene grinding and storage system (AC 29-156218), polystyrene transport system and feed hopper (AC 29-156219), dry mixer (AC 29-156220), wet mixer (AC 29-156221), dry material bagging system and limestone silo with holding systems connected to a common main dust collector (AC 29-156223), and limestone silo pneumatic unloading system (AC 29-156224) shall be continuous (i.e. 8760 hrs./yr.). The hours of operation for the loading of the limestone DC Bin No. 2 (AC 29-156217) shall not exceed 3640 hrs./yr.
- 2. The maximum hourly rate of operation for the permitted sources shall be as follows:
- a. For the limestone DC Bin No. 2 (AC 29-156217), limestone shall not be loaded into the bin at a rate of more than 20,000 lbs./hr.
- b. For the polystyrene grinding and storage system (AC 29-156218), polystyrene peanuts shall not be ground at a rate of more than 40 lbs./hr.

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223

AC 29-156224

Expiration Date: June 9, 1989

c. For the polystyrene transport system and feed hopper (AC 29-156219), polystyrene shall not be fed to the hopper at a rate of more than 40 lbs./hr.

- d. For the dry mixer (AC 29-156220), dry powder joint compound shall not be produced at a rate of more than 5,735 lbs./hr.
- e. For the wet mixer (AC 29-156221), wet redi-mix joint compound shall not be produced at a rate of more than 6,618 lbs./hr.
- f. For the dry material bagging system and limestone silo with holding systems (AC 29-156223), the sum total of dry powder product output and wet redi-mix product output shall not exceed 12,353 lbs./hr.
- g. For the limestone silo pneumatic unloading system (AC 29-156224), limestone shall not be fed to the limestone supply silo at a rate of more than 8,300 lbs./hr.
- 3. Calibrated devices to continuously measure and record the following process variables shall be installed:
- a. The hourly rate that limestone is loaded into the limestone DC Bin No. 2 (AC 29-156217).
- b. The hourly rate that polystyrene peanuts are ground into beads polystyrene grinding and storage system (AC 29-156218).
- c. The hourly rate of dry powder product output from the dry mixer (AC 29-156220).
- d. The hourly rate of wet redi-mix product output from the wet mixer (AC 29-156221).

Each device and recorder shall be recalibrated at least annually.

4. The maximum particulate emissions from each of the permitted sources shall be limited as follows:

Gold Bond Building Products

AC 29-156218
AC 29-156219
AC 29-156220
AC 29-156221
AC 29-156223

AC 29-156224

Expiration Date: June 9, 1989

a. Particulate emissions from the limestone DC Bin No. 2 (AC 29-156217) shall neither exceed 0.03 gr./DSCF, nor 0.60 lbs./hr., nor 1.09 tons/yr.

- b. Particulate emissions from the polystyrene grinding and storage system (AC 29-156218) shall neither exceed 0.03 gr./DSCF, nor 0.09 lbs.hr., nor 0.4 tons/yr.
- c. Particulate emissions from the polystyrene transport system and feed hopper (AC 29-156219) shall neither exceed 0.03 gr./DSCF, nor 0.09 lbs.hr., nor 0.4 tons/yr.
- d. Particulate emissions from the dry mixer (AC 29-156220) shall neither exceed 0.03 gr./DSCF, nor 0.18 lbs./hr., nor 0.78 tons/yr.
- e. Particulate emissions from the wet mixer (AC 29-156221) shall neither exceed 0.03 gr./DSCF, nor 0.18 lbs./hr., nor 0.78 tons/yr.
- f. Particulate emissions from the dry material bagging system and limestone silo with holding systems connected to a common main dust collector (AC 29-156223) shall neither exceed 0.03 gr./DSCF, nor 1.3 lbs./hr., nor 5.68 tons/yr.
- g. Particulate emissions from the limestone silo pneumatic unloading system (AC 29-156224) shall neither exceed 0.03 gr./DSCF, nor 0.4 lbs./hr., nor 1.75 tons/yr.
- 5. Visible emissions from the limestone DC Bin No. 2 (AC 29-156217), the polystyrene grinding and storage system (AC 29-156218), the polystyrene transport system and feed hopper (AC 29-156219), the dry mixer (AC 29-156220), the wet mixer (AC 29-156221), the dry material bagging system and limestone silo with holding systems connected to a common main collector (AC 29-156223), and the limestone silo pneumatic unloading system (AC 29-156224) shall not exceed 5% opacity (no visible emissions) as a 6-minute average.
- 6. All reasonable precautions shall be taken to prevent and control the generation of unconfined particulate matter emissions

Gold Bond Building Products AC 29-156218

AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223

AC 29-156224

Expiration Date: June 9, 1989

resulting from all operations and sources associated with the production of joint compound. The operations include, but are not limited to, the unloading, storage, mixing, packaging, and handling of materials. Reasonable precautions include, but are not limited to, the regular clean-up of dust accumulations and raw material spills using procedures that are acceptable to the Department and the Hillsborough County Environmental Protection Commission (HCEPC).

- 7. This modification results in a particulate matter increase of 10.88 tons/yr. This increase in emissions is contemporaneous with a particulate matter increase of 3.40 tons/yr. resulting from the issuance of air constructions permits AC 29-147504 and AC 29-155612. This increase of 10.88 tons/yr. in particulate emissions shall also be contemporaneous with any increase associated with any future modification pursuant to Florida Administrative Code (F.A.C.) Rule 17-2.510.
- 8. The Department has relied upon both the oral and written information supplied by the applicant in the issuance of these permits. Upon transfer of the joint compound production line to Hillsborough County, the permittee shall surrender all air permits for the joint compound production line that were issued by the Department and/or Dade County to the appropriate agency.
- 9. Compliance with Specific Conditions Nos. 5 and 6 shall be demonstrated pursuant to all applicable provisions of F.A.C. Rule 17-2.700.
- a. Initially, compliance with Specific Condition No. 5 shall be demonstrated prior to obtaining an operation permit and prior to obtaining a renewed operation permit thereafter using EPA Methods 1, 2, 4, and 5.
- b. Alternatively, compliance with Specific Condition No. 5 may be demonstrated initially and annually thereafter by using EPA Methods 2 and 9 to demonstrate that visible emissions from each of the baghouses do not exceed 5% opacity (no visible emissions) as a 6-minute average. If the Department or the HCEPC has reason to believe the mass emission limitation in Specific Condition No. 5 is being exceeded--a

Gold Bond Building Products AC 29-156218

AC 29-156218 AC 29-156219 AC 29-156220 AC 29-156221 AC 29-156223 AC 29-156224

Expiration Date: June 9, 1989

mass emission test using EPA Methods 1, 2, 4, and 5 may be required.

- c. Initially, compliance with Specific Condition No. 6 shall be demonstrated prior to obtaining an operation permit and annually thereafter using EPA Method 9.
- d. The Department's Southwest District office and the HCEPC shall be notified at least 15 days in advance of any compliance test.
- e. Compliance test reports shall conform to the requirements of F.A.C. Rule 17-2.700(7) and shall be submitted to the Department's Southwest District office and the HCEPC within 45 days after completion of the test.
- f. Each permitted source shall be operated at 90% to 100% of the maximum permitted rate during any compliance test.
- g. The initial compliance test shall be performed within 30 days after the completion of construction.
- 10. An operation and maintenance plan acceptable to the Department and the HCEPC shall be developed by the applicant. This plan shall be submitted with the application for a construction permit. When approved, the plan shall become a condition of the operation permit.
- 11. The permittee for good cause, may request that this construction permit be extended. Such a request shall be submitted to the BAQM prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
- 12. The application for an operation permit must be submitted to the Southwest District office and the HCEPC at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the

Gold Bond Building Products

AC 29-156218
AC 29-156220
AC 29-156221
AC 29-156223
AC 29-156224
Expiration Date: June 9, 1989

conditions of the permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued this _____ day of _____, 1989

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Permit Numbers:

Dale Twachtmann, Secretary

AC 29-156217

PERMITTEE:

file copy

pM 1-12-89 Charlotte, DC



January 11, 1989

RECEIVED

JAN 17 1989

DER - BAOM

Florida Dept. of Environmental Regulations Twin Tower Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Attn: Mr. Mike Harley

Re: Joint Compound Process from Dade County to our Tampa Plant

Dear Mr. Harley:

Following is the information you requested in our phone conversation today:

- 1. The approximate capacity of DC Bin #2 is 190 tons.
- 2. The size of the volumetric hopper for the ground polystyrene is 4 ft. diameter by 10 ft. high.
- 3. The short weights bin for the dry mix measurements are 4 ft. wide x 12 ft. long x 3 ft. deep.
- 4. Measurements of the limestone bin is 15 ft. diameter x 48 ft. high.
- 5. The short weights bin for the wet mix measurements are 4 ft. wide x 6 ft. long x 3 ft. deep.
- 6. The limestone holding bin for the wet mix measurements are 4 ft. wide x 6 ft. long x 3 ft. deep.

If you have any further questions, please call.

Sincerely yours,

D. B. Collins

Environmental Engineer

B Collins

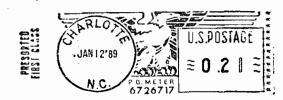
DBC/mmm

cc: E. J. Reich

Chief Mechanical Engineer

Executive Offices • 2001 Rexford Road • Charlotte, NC 28211-3498 • 704 365-7300

Gold Bond Building Products 2001 Rexford Road Charlotte, North Carolina 28211





A National Gypsum Division

Florida Dept. of Environmental Regulations Twin Tower Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Attn: Mr. Mike Harley

Address Correction Requested

Talladdollddolladdolladladladladd

(404)=488-6579 MIKE HARLEY

753 3

PM 1-10-89 charlotte, NC



RECEIVED

JAN 1 3 1989

DER - BAQM

January 6, 1989

Florida Dept. of Environmental Regulations Twin Tower Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Attn: Mr. Mike Harley

Joint Compound Process from Dade County to our Tampa Plant

Dear Mr. Harley:

As per our phone conversation today, attached is the following additional information requested:

- 1. Unloading of the polystyrene and limestone delivery trucks will be by enclosed pneumatic conveying.
- The Flex-Kleen catalog list Model #84-WRB-64-III at 678 square feet fabric.
- 3. The vents over the wet mixer and the dry mixer will be vented to a baghouse.
- Reasonable housekeeping practices will be maintained in the areas where bags are cut and material is dumped into the mixers.

If you have any further questions, please call.

Sincerely yours,

D. B. Collins

Environmental Engineer

DBC/mmm

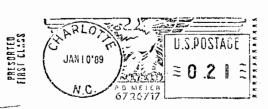
E. J. Reich

Chief Mechanical Eng.

Mike Harley > 1-18-49
BTICHE BT/CHF

Gold Bond Building Products 2001 Rexford Road Charlotte, North Carolina 28211

A0





Florida Dept. of Environmental Regulations Twin Tower Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Attn: Mr. Mike Harley

'Address Correction Requested

<u> Նուհականի հանաահանի անունանի ն</u>



RECEIVED

JAN 05 1989

DER - BAQM

December 29, 1988

Florida Dept. of Environmental Regulations Twin Tower Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Attn: Mr. Mike Harley

Re: Joint Compound Process from Dade County to our Tampa Plant

Dear Mr. Harley:

As per our phone conversation today, attached is the following additional information requested:

- 1. All bag materials including talc are hand dumped into the wet and dry mixers. A hood over each dump station vents the dust caused by bag dumping.
- 2. Both wet and dry processes are a batch operation.

If you have any further questions, please call.

Sincerely yours,

D. B. Collins

Environmental Engineer

DBC/mmm

cc: E. J. Reich

Chief Mechanical Eng.



A National Gypsum Division

December 28, 1988

RECEIVED

JAN 0 4 1989

DER-BAOM

Florida Dept. of Environmental Regulations Twin Tower Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Attn: Mr. Mike Harley

Re: Permit Applications for Joint Compound Process at Gold Bond's Tampa Plant

Dear Mr. Harley:

This confirms our phone conversation of December 27, 1988, regarding correction to the referenced permit applications. The required corrections are as follows:

- 1. System #2 Page 2 Section II A, change 90 square foot baghouse to read: 65 square foot baghouse. Section V Calculation Sheet Item 4, change baghouse air/cloth ratio 360/90 = 4.0:1 to read: 360/65 = 5.5:1.
- 2. System #3 Page 2 Section II A, change 90 square foot baghouse to read: 65 square foot baghouse. Section V Calculation Sheet Item #4, change baghouse air/cloth ratio 360/90 = 4.0:1 to read: 360/65 = 5.5:1.
- 3. System #4 Page 2 Section II A, change 250 square foot baghouse to read 175 square foot baghouse.

We appreciate your calling these errors to our attention, and for giving us the opportunity to make the corrections immediately. We also appreciate your help in getting the applications processed through your system expediently to meet our tight construction schedule to begin tie-in by February 1, 1989.

Please call immediately for any additional information.

Sincerely yours,

E. J. Reich, P. E.

EJR/mmm

cc: P. H. Chheda Director of Eng. R. G. Moore

Tampa Plant Manager

RECEIVED

DEC 28 1988

DER - BAQM

GOLD BOND BUILDING PRODUCTS B001 Revford Road & Charlatte, ML 28211 & (704) 365-7300

ac simile

· · · · · ·	,					•
man .						· .
			FAX	74 0A) 488-65	79
State of a	lorida		DAT	- Cont.		**************************************
			و الله المستواليا			
		a de la compania del compania del compania de la compania del la compania de la compania della c	AND STREET			
		**	,	and the state of the taken the field	March a dark purpose spirate	
The state of the s		the same of the same and the same of the s				•
i Logoliyesi	1' + +	9				
		F10.9-11				
***	,					
	ii cor i		* = = =			
					Υ.	
· gis. g	The state of the second		-			
				•		
The state of the s	-		-		No.	
	To grangette 2 and Silver on the month of page 1				e - Send in medicines FRES STATE dark Marketones - e	and the same of th
(· . ·		
			and the second	- CENTRAL PROPERTY OF THE PROP		
						•
	-	VALUE OF THE PARTY	Marine and the second	CARLES CONTRACTOR OF THE PARTY		-
And the second s	and the state of t	Managara Andrewson St. Communication of the Communi	رين و دهم د المحاسبين			
W.	The state of the s					
. The		•				
The state of the s			-			
And the second s	And the second s					
		7 - 1 1 1		'		,

GOLD BOND BUILDING PRODUCTS

DIVISION OF NATIONAL GYPSUM COMPANY RECEIVED

ENGINEERING DEPT.

DEC 21 1988

NG 2328 REV. 11 1-64

•		TDAN	ISMITTAL	OE DPA	WINGS 1	VIA		•
□ 1 Cl 466 4	***			OF DRA		DE	R - BAQM	DDEss
☐ 1st CLASS N☐ AIR MAIL	MAIL		LASS MAIL CIAL DELIVERY	r	☐ EXPRE		AIR EX	PRESS
то:	I AL	D.E.R	•	DATE:		2/16/	88	
7	2600 E	BLAIR ST	one Rd.	W.O. NO.		-		
	ALLAHA	SSEE, F	L 32399.	PLANT:_		TAMP	<u> </u>	
ATTEN:	Miz. N	MIKE H	ARLEY	-				
GENTLEMEN:			/					
WE A	RE RETURN	ING YOU HER	EWITH THE FO	LLOWING_				
☐ PRII			RACINGS		_	MATERIALS	. [SEPIAS
DWG.	REV.	COPIES	DWG.	REV.	COPIES	DWG.	REV.	COPIES
NO.	NO.	EACH	NO.	NO.	EACH	NO.	NO.	EACH
			·					
					_	·		
WUICUARE. T	APPROVE	- n						
WHICH ARE:	APPROVE	R R ECORDS						
, <u>, , , , , , , , , , , , , , , , , , </u>		OUR REQUES	T			1		
	_		ON WITH YOUR	WORK				
[THE NECESS	SARY CORRECTION	ONS AND SE	ND US
_			REVISED D				DISTRIBL	
REMARKS					_			
K LMAKKS ———	COPY	0 F	DADE	COU	NT V			·
	PERI	MIT #	AP-		-880	2		
						GOLD BOND	BUILDING	PRODUCTS
C.C AND	SETS OF F	RINTS TO				DIVISION OF NA	TIONAL GYPSU	JM COMPANY
						y SMI	Sh	



METROPOLITAN DADE COUNTY, FLORIDA ENVIRONMENTAL RESOURCES MANAGEMENT

SUITE 1310 111 N.W. 1st STREET MIAMI, FLORIDA 33128-1971 (305) 375-DERM

POLLUTION CONTROL FACILITY ANNUAL OPERATING PERMIT

RUVU

PERMITTEE: Mr. Douglas A. Morgan

NATIONAL GYPSUM COMPANY

2860 West 3 Ct Hlaleah, Fl. 33010 Permit Number: AP-0444-88C

Area: 09

SCUTCE HAME: NATIONAL GYPSUM COMPANY

Location:

2860 West 3 Ct Hialeah, Fl. 33010

issued date: July 22, 1988



1 1988

This permit is issued under the provisions of Chapter 24, Metropolitan Dade County Code (Dade County Pollution Control Ordinance), shall be valid from July 01, 1988 through June 30, 1989. The above named permittee, is hereby authorized to operate the pollution control facility at the above location which consists of the following:

MANUFACTURING OF BONDING COMPOUNDS

Dust Collecting System
One Flex Kleen Model #84RA-128 Dust Collector 40 H.P., serving lime storage silo.

One Flex Kleen Model #84CT-38 Dust Collector, 100 H.P., serving lime storage silo.

Subject to general conditions one (1) through nine (9) listed on the reverse side, and specific conditions A through A listed below.

SPECIFIC CONDITIONS:

A. No visible emissions equal to or greater than 20% opacity permitted from this facility.



Metropolitan Dade County Department of Environmental Resources Management

Anthony i Comente 9 5 Director



DER - BAQM

December 5, 1988

Florida Dept. of Environmental Regulations Twin Tower Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Attn: Mr. Mike Harley

Re: Joint Compound Process from Dade County to our Tampa Plant

Dear Mr. Harley:

As per our phone conversation today, attached is the following additional information requested:

- A. Confidential list of raw materials used in the Wet Mix Process
- B. Confidential list of raw materials used in the Dry Mix Process
- C. A process description.

The process rate of the Limestone silo should remain at 10 t/hr. at 10 hrs./day. Please change the process rate of the Limestone Holding Bin from 20,000 lbs./hr. at 24 hrs./day, to 8,300 lbs./hr. at 24 hrs./day.

If you have any further questions, please call.

Sincerely yours,

D. B. Collins

Environmental Engineer

DBC/mmm

cc: E. J. Reich

Chief Mechanical Eng.

· · · · · · · · · · · · · · · · · · ·		:			
FORM OF PAYMENT			(P)/(L)	UNITED STATES / CANADA	INTERNATIONAL
			الإنتاك	STANDARD SERVICES *	STANDARD SERVICES *
CASH CBL .	FCCOD	WORLO	WIEÉ .	Same Day Other	Courier Express Documents
	하루 그 등에 그	046399	7 9 1 9	Next Morning 7 Metro	Air Cargo Service Customs Clearance
PPD 😈 ÇOL 🗌 OTH 🗌 COMÂT	□ P A = 1 A B ■ III I	in die die die die die	LÍO TÚI ĐẦU TÚI THƠ	Second Morning	Air Economy Service Delivery
Shippers Emery Account Number				Date Origin	Shipment Number
E DOOL5525	₩		ANTO TOTAL BURNE TOTAL TOTAL	12/5/81	\mathbf{D} \mathbf{H} \mathbf{P} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{T}
From:	FOR HELP WING ALL OF	To	1 3 . A . A . A . A . A . A . A		Saturday Tariff Dest. Gateway
D. B. Collins	(704) 365-73	00	Mr. Mika	Harley o	Saturday Delivery
					Chieck &
COLD BOND BLOG P	260		Florida D	ent of Envisonn	
The state of the same of the same	Secretario de la como de mante de	130 38.21	12 - 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Les to the language.	120 11 e 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2001 REXFORD RD			2600 Blat	r Stone Rd. 9	Airport Consignee's check
		Canada		and the second s	Canada made payable only
CHARLOTTE, NO				An Common spin grant of the second	to the shipper for
Customer's Reference Number	ors Zip	1	Consignee's Emer		the value of the goods in the amou
N.O. 2074	20212	 E		2 2 2	Shown above.
Description and Marks	Dimensions		Weight		
	PCS TE TE TE TE TE TE TE T		ribs.)	A SA	
TODSR Haz Mat Fedit	ABCDEFG	1 2 3 4	5 6		
		7 8 9 0	1 2		
in this principal section in the first section	e de la companie de		· · · · · · · · · · · · · · · · · · ·		
Market Market Comment	<u> </u>	Envelape	Pack 1		
in the second se	, K	9X12 3 12X1	5 X	erms and Conditions on	Back
Shipper's Signature X	Third party Emery Third	Party Emery Account No.			
Comm: Code	Account Number	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Multiple Shpts // Drop E
	mandatory for. Third party billing	and the state of t	1	The state of the s	1 2 3 4 5
and the second second	Intl. Customs Value	Intl. Insurance	Rec'd Time Re	ceived Date Received	7 8 9 0 1
Base Charge		1	Emery	The second of the second of the second	Over 32
Significant of the second of t	Total Transportation Charges	Other Charges/Advance	Goods	ppers Drop A Box A By: Emery Repres	sentative.
		OC/AO- \$	Rec'd		
			Ten	minai ···· Advance	
				: .	
				and the commence of the second	

· · .



RECEIVED

December 5, 1988

DEC 13 1988

DER - BAQM

Florida Dept. of Environmental Regulations Twin Tower Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Attn: Mr. Mike Harley

Re: Joint Compound Process from

Dade County to our Tampa Plant

Dear Mr. Harley:

As per our phone conversation today, attached is the following additional information requested:

- A. Confidential list of raw materials used in the Wet Mix Process
- B. Confidential list of raw materials used in the Dry Mix Process
- C. A process description.

The process rate of the Limestone silo should remain at 10 t/hr. at 10 hrs./day. Please change the process rate of the Limestone Holding Bin from 20,000 lbs./hr. at 24 hrs./day, to 8,300 lbs./hr. at 24 hrs./day.

If you have any further questions, please call.

Sincerely yours,

D. B. Collins

Environmental Engineer

DBC/mmm

cc:

Chief Mechanical Eng.

Process Flow of Redi-Mix and Dry Powder Joint Compounds

Limestone is received by rail car and trucks. Material is air conveyed to DC Bin #2.

From DC Bin limestone is conveyed by drag chain, screw conveyors and bucket elevator to limestone bin.

Limestone is discharged from limestone bin into a weigh tank. This weigh tank will service both the wet redi-mix and dry powder operations.

The wet redi-mix system consists of a short wts. bin, mixer, pump and a holding tank.

The limestone and other dry materials are loaded into the short wts. bin, then are conveyed by a screw conveyor and bucket elevator to a wet-mixer. In the mixer, the dry materials are mixed with water and other liquids and becomes a wet "pastelike" product. This product is pumped from the mixer to a holding tank.

From the holding tank this "paste" or redi-mix joint compound is pumped to a fill station, where it is put in 5 gallon pails or 4 gallon cartons. The pails and cartons are sealed and thus becomes the finished product.

The dry powder system consists of a short wts. bin, dry mixer and packer.

The limestone and other dry materials are loaded into the short wts. bin, then are conveyed by screw conveyor and bucket elevator to the dry mixer. The dry mixer dumps into a hopper which in turn feeds the packer. The packer loads the material into bags. This is the finished product.



RECEIVED

NOV 28 1988

DER - BAQM

November 23, 1988

Florida Dept. of Environmental Regulations Twin Tower Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Attn: Mr. Bill Thomas

Re: C. F. Fancy's letter of

November 15, 1988

Dear Mr. Thomas:

Attached is the additional information requested in Mr. Fancy's letter as follows:

- A. Answers to questions 1 through 14.
- B. Seven revised applications with confidential information excluded. Please destroy the previous applications except the signed first sheet.
- C. Re-cap of controlled emission
- D. Process flow chart SK-111888-0
- E. Wet & dry mix bag material expected emissions

I will call you Monday, November 28, 1988, to discuss these details.

Sincerely yours,

D. B. Collins

Environmental Engineer

DBC/mmm

- 1. Attached are seven revised applications without the "Confidential" stamp. We have omitted Section III, Item A, on the Wet Mix Application and the Dry Mix Application. These are the list of raw materials used and are submitted under separate cover marked "Confidential".
- 2. There are no odorous compounds emitted from this process.
- 3. There are no VOC emissions expected to occur. The vapor pressure of the Wet Mix Compound is essentially that of water at 17 mm Hg at 20°C. The Ethylene Glycol used has a vapor pressure of .01 to .05 mm Hg at 20°C.
- 4. There is only one storage vessel to be used for liquids. This will be the same tank used at our plant in Dade County and contains latex. It is 10 ft. in dia. x 11 ft. high, 6000 gal. capacity, fiberglas construction purchased in May 1980. It will be used to again store latex at our Tampa Plant.
- 5. Three ingredients use 55 ga. drums and hand operated pumps. The latex is pumped with an electric gear pump.
- 6. The air to cloth ratios are based on actual usable cloth area and not as listed by the vendor. Example: 5-7/8" dia. x 84" long bag = 10.77 sq. ft. Subtract the fold over area to install and the metal area of the cage the resulting length is closer to 78" or 10.0 sq. ft.
- 7. Attached is a corrected flow sheet for the Polystyrene feed hopper showing a 58-BV-9-III baghouse and 360 CFM.
- 8. Attached is a revised flow chart for the Wet Mix Process and one for the main dust collector.
- 9. For the limestone silo the new source performance 40 CFR 60 should be marked "Not Applicable".
- 10. Attached is a complete process flow chart showing essentially two processes (Wet Process) and (Dry Process) that operate simultaneous.

- 11. There is no grinding nor calcining done in this process. The Polystyrene is purchased as "Expanded Polystyrene" and is processed through the "Grinder" to reduce the material to a diameter of approximately 1/32" diameter. There are no "fines" in this product.
- 12. The limestone supply bin will operate continuously 24 hrs./day, 7 days/week, 52 weeks/year. The limestone silo will operate only while being loaded 10 hrs./day, 7 days/week, 52 weeks/year.
- 13. This process is currently operating in our Dade County Florida Plant, with valid permits and with no uncontrolled emissions. Particulates is the only pollutant listed in table 500-2 that is expected to be emitted. The lbs./hr. and tons/year is listed on the recap sheet of Controlled Particulate Emissions at 2.84 lbs./hr. and 10.88 tons/year.
- 14. The process for the submitted permit applications does not effect the operation of the permitted sources of the existing facility.

BAG MATERIAL EXPECTED EMISSIONS

WET MIXING BAGHOUSE EMISSIONS = .18 LBS./HR. PARTICULATE

		LBS./HR.	TONS/YEAR
MICA	$200/6618 \times .18 =$.005	0.024
TALC	150	.004	0.018
CLAY	100	.003	0.013
UREA	15	.0004	0.002
NATROVIS	15	.0004	0.002
PV ALCOHOL	8	.0002	0.001
METHOCEL	6	.0001	0.0005
NATROSOL	6	.0001	0.0005
SORBITOL	3	.00005	0.00025

BAG MATERIAL EXPECTED EMISSIONS

DRY MIXING BAGHOUSE EMISSIONS = .18 LBS./HR. PARTICULATE

			LBS./HR.	TONS/YEAR
TALC	900/5735 x	.18 =	.028	0.123
WILKLAY	500	=	.016	0.070
MICA	100	=	.003	0.013
PV ALCOHOL	20	=	.0006	0.003
CULMINAL	20	=	.0006	0.003
STARAMIC	60	=	.0018	0.009
INTERCIDE	15	. =	.0005	0.002
DEFOAMER	10	=	.0003	0.0015
HYDROCAL	70	=	.002	0.009

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



RECEIVE

 η_I .

NOV 2 8 1988

WILLIAM K. HENNESSE'
DISTRICT MANAGE!

			DER - BAC	C	
	APPLICATION TO OPERATE/	CONSTRUCT AIR PO	OLLUTION SO	DURCES	
SOURCE TYPE: A	ir Pollution	X] New ¹	[] Exist	ingl	
APPLICATION TYPE:	[X] Construction []	Operation [] i	Modification	01	
COMPANY NAME: Gold	d Bond Building Products,	Division of Nat	ional	COUNTY: Hills	borough
Identify the spec	ific emission point sour		J	oint Compound	1
	enturi Scrubber; Peaking				
SOURCE LOCATION:	Street 6110 Commerce Str			City Port Ta	ılıba ·
	UTM: East 17-347.3		North	3.082.7	
	Latitude 27 • 52 •	''N	Longi tud	02 • 33	"W
APPLICANT NAME AN	D TITLE: R. G. Moore, Pl	ant Manager			
APPLICANT ADDRESS	: 6110 Commerce Street, P	. O. Box 19307,	Tampa, FLA	33616	
	SECTION I: STATEMEN	TS BY APPLICANT	AND ENGIN	EKR	
A. APPLICANT			Co	old Bond Build	dina Produc
I am the unde	rsigned owner or authori	zed Tenresentat:	• •		•
*	t the statements made in		Co	mpany	muction:
I agree to m facilities in Statutes, and also understa	aintain and operate the such a manner as to c all the rules and regul nd that a permit, if gromptly notify the depart	e pollution con omply with the ations of the deanted by the de	trol source provision epartment a partment,	ee and pollu of Chapter and revisions will be non-	tion control 403, Flori thereof. transferab
*Attach letter of	authorization	Signed:		· · · · · · · · · · · · · · · · · · ·	
			re, Plant M		
		Name and	i Title (P.	lease Type)	
		Date:	Telepho	one No. <u>(813)8</u>	39-2111
B. PROFESSIONAL	ENGINEER REGISTERED IN F	LORIDA (where re	equired by	Chapter 471,	, F.S.)
been designed principles ap	rtify that the engineeri /examined by me and fo plicable to the treatmen ation. There is reason	und to be in c it and disposal	onformity of polluta	with modern	engineeri rized in t

Page 1 of 12

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1)

Effective October 31, 1982

	Signed Political
	Padamshi H. Chheda
•	Name (Please Type) Gold Bond Building Products, Division of Nati Gypsum Company
···	Company Name (Please Type) 2001 Rexford Road, Charlotte, N. C. 28211
·	Mailing Address (Please Type)
ids Registration No. 28433	Date: 10-10-1988 Telephone No. (704)365-7238
SECTION	II: GENERAL PROJECT INFORMATION
and expected improvements in whether the project will resonecessary.	nt of the project. Refer to pollution control equipment source performance as a result of installation. State ult in full compliance. Attach additional sheet if
	ity silo and will contain only limestone. It will be
pneumatically loaded fr	om railcars or trucks at a rate of 10 tons/hr. Using 230
CFM_conveying air which	will be vented thru a 640 sg. ft. baghouse which will
result in full complian	
	in this application (Construction Permit Application Onl
Start of Construction 12/1/8	8 Completion of Construction 6/1/89
for individual components/un	yatem(s): (Note: Show breakdown of estimated costs onlits of the project serving pollution control purposes. Shall be furnished with the application for operation
Estimated cost of insta	lled dust control system = \$40,000.00
	
	rmits, orders and notices associated with the emission
indicate any previous DER per point, including permit issue	

_		
_		
_	·	
	f this is a new source or major modification, answer the following quest: Yes or No)	ions.
1.	. Is this source in a non-attainment area for a particular pollutant?	Yes
	a. If yes, has "offset" been applied?	No.
	b. If yes, has "Lowest Achievable Emission Rate" been applied?	No
-	c. If yes, list non-attainment pollutants. Particulates	
2.	Does best available control technology (BACT) apply to this source? If yes, see Section VI.	No
3.	. Does the State "Prevention of Significant Deterioristion" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	No
4.	Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	No
5.	Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	No
	¬Reasonably Available Control Technology¬ (RACT) requirements apply this eource?	Yes /
	a. If yes, for what pollutants? Particulates	

b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be aubmitted.

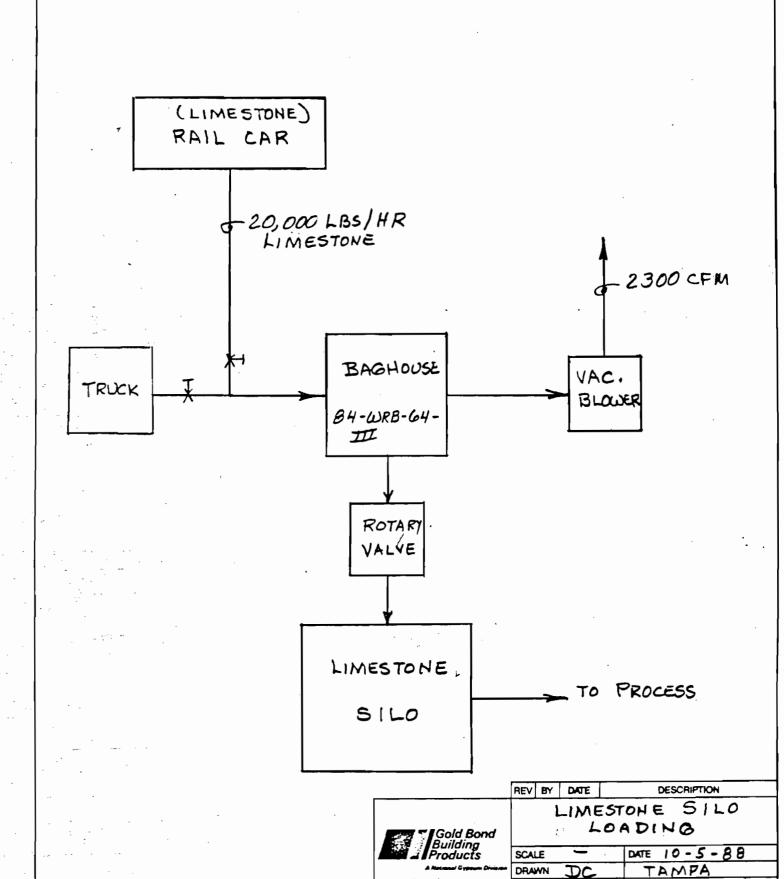
Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

	•		•
9.	The appropriate application fee in accomade payable to the Department of Enviro		should be
10.	With an application for operation permit struction indicating that the source permit.	it, attach a Certificate of Completi was constructed as abown in the c	on of Con- onstruction
	SECTION VI: BEST AVAI	ILABLE CONTROL TECHNOLOGY	
٨.	Are standards of performance for new stapplicable to the source?	ationary sources purauant to 40 C.F.	R. Part 60
	[] Yes [] No		
	Conteminant	Rate or Concentration	
		<u> </u>	
			· · · · · · · · · · · · · · · · · · ·
			·
в.	Has EPA declared the best available coryes, attach copy)	ntrol technology for this class of s	sources (If
	[] Yes [] No N/A		
	Conteminant	Rate or Concentration	
			· · · · · · · · · · · · · · · · · · ·
	· ·		· ·
			N/A
Ε.	What emission levels do you propose as b		N/A
	Contaminant	Rate or Concentration	
			-
-			· · ·
D.	Describe the existing control and treats	ent technology (if any).	N/A
	1. Control Device/System:	2. Operating Principles:	
	3. Efficiency:*	4. Capital Costs:	
+Exp	lain method of determining	•	

Page 8 of 12

DER Form 17-1.202(1) Effective November 30, 1982

				* .
Useful Life: N/A		6.	Operating Costs:	
Energy:		8.	Maintenance Coat:	47
Emissione:				•
Contaminant			Rate or Concentration	
· · · · · · · · · · · · · · · · · · ·				
Stack Parameters N/A	·			
Height:	ft.	ь.	Diameter:	ft.
Flow Rate:	ACFH	d.	Temperature:	•F.
Velocity:	FPS			
additional pages if necessary)	•	_		applicable
EPA has determined that BACTf	or this	sou	rce is a fabric filter.	
Control Device:		ь.	Operating Principles:	:
Efficiency: 1 N/A		d.	Capital Cost:	
Useful Life:	•	f.	Operating Cost:	
Energy: 2		h.	Maintenance Cost:	-
Availability of construction m	aterial	.s an	d process chemicals:	•
Applicability to manufacturing	proces	568:		
Ability to construct with con within proposed levels:	trol de	vice	, install in available apace,	and operat
Control Device:		b.	Operating Principles:	
Efficiency: 1 N/A		d.	Capital Cost:	
Useful Life:		f.	Operating Cost:	
Energy: 2		h.	Maintenance Cost:	
	Contaminant Contaminant Stack Parameters N/A Height: Flow Rate: Velocity: cribe the control and treatmen additional pages if necessary) EPA has determined that BACT f Control Device: Efficiency: 1 N/A Useful Life: Energy: 2 Availability of construction m Applicability to manufacturing Ability to construct with con within proposed levels: Control Device: Efficiency: 1 N/A Useful Life:	Energy: Emissions: Contaminant Stack Parameters N/A Height: ft. Flow Rate: ACFM Velocity: FPS cribe the control and treatment techn additional pages if necessary). EPA has determined that BACT for this Control Device: Efficiency: N/A Useful Life: Energy: 2 Availability of construction material Applicability to manufacturing proces Ability to construct with control de within proposed levels: Control Device: Efficiency: N/A Useful Life:	Energy: Contaminant Stack Parameters N/A Height: Flow Rate: ACFM d. Velocity: FPS cribe the control and treatment technolog additional pages if necessary). EPA has determined that BACT for this SOU Control Device: Efficiency: N/A Useful Life: Energy: Availability of construction materials and Applicability to manufacturing processes: Ability to construct with control device within proposed levels: Control Device: b. Efficiency: N/A Useful Life: Control Device: b. Efficiency: N/A Liseful Life: f.	Energy: Energy: Contaminant Stack Parameters N/A Height: ft. b. Diameter: Flow Rate: ACFM d. Temperature: Velocity: FPS cribe the control and treatment technology available (As many types as additional pages if necessary). EPA has determined that BACT for this source is a fabric filter. Control Device: b. Operating Principles: Efficiency: N/A d. Capital Cost: Availability to construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available apace, within proposed levels: Control Device: b. Operating Principles: Control Device: b. Operating Principles: Control Device: b. Operating Principles: Efficiency: N/A d. Capital Cost: Fficiency: Figure 1 N/A d. Capital Cost: Useful Life: F. Operating Cost:



CHECK

APPD. PROJ. 5K 100588-1

WR Series offers excellent filtration efficiency — for product recovery systems, large bin venting applications and general nuisance dust collection.

Advantages

The WR Series of welded pulse jet dust collectors offers:

Easy installation

Depending on size, unit may be shipped completely assembled. Or, welded sections are shop assembled for quick and easy field erection, low field labor costs.

- Quick-mounting air headers
 In most cases, compressed air headers are shipped pre-wired and pre-piped, ready to mount.
- Low operating costs
- Timer reduces energy costs

Adjustable timer maintains low pressure drop, with minimum compressed air consumption. Energy costs are reduced.

- Differential pressure gauge
 Supplied as a standard item to evaluate collector operation and optimize bag cleaning capacity.
- Minimum maintenance
 No internal moving parts. Interior maintenance is greatly reduced. Collector shut-down is minimized.
- Quick bag replacement
 Bag and cage are designed to attach easily, permitting quick bag replacement.

Features

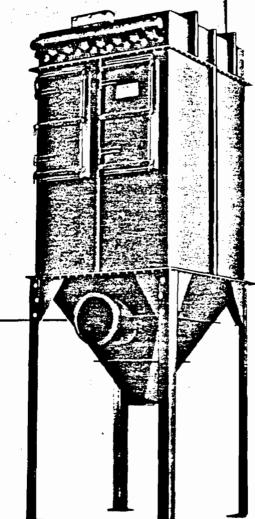
- Models available with bottom and top bag removal.
- Durable construction of welded
 12 gauge hot rolled steel
- Flanged air inlet, outlet and flanged dust discharge.
- 20" diameter top access port(s) to clean air plenum.
- Heavy gauge, cast aluminum venturis.
- Heavy duty, smooth wire cages.
- NEMA 4 (weathertight) electricals.
- Corner saddle supports through 96 bag size.
- Six inch girth channel for continuous support – on sizes larger than 96 bags.
- Weatherproof walk-in clean air plenum (applies to top bag

removal only).

- Differential pressure and air header gauges.
- Door sills have built-in 45° slopes.

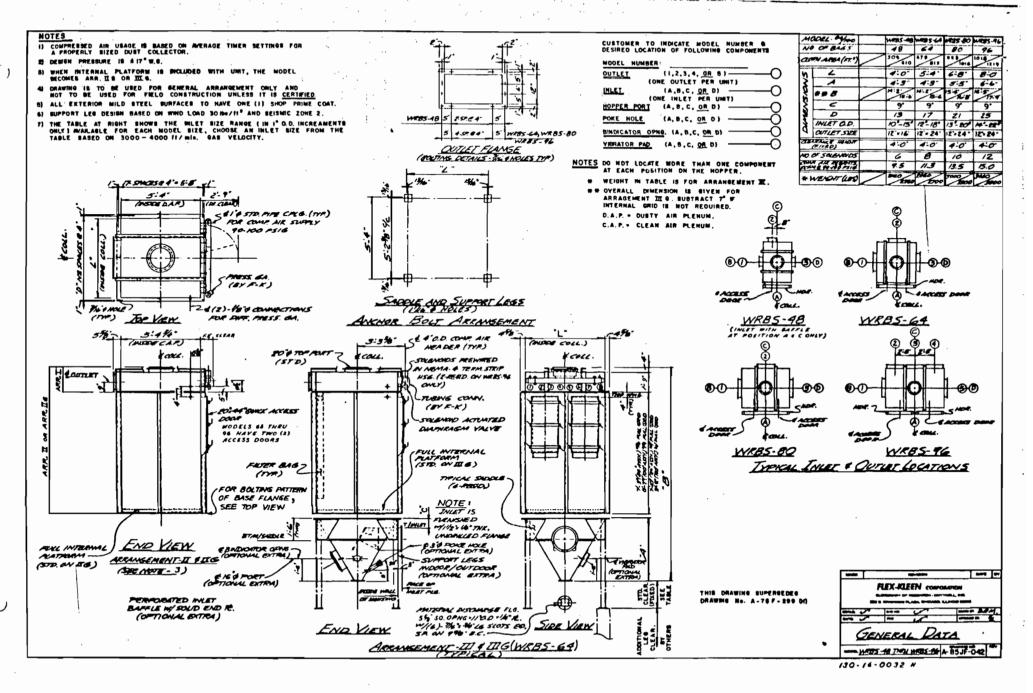
Options

- Top bag removal with lift-off doors or walk-in plenum.
- Bag cages epoxy coated or 304SS.
- Wide range of interior coatings.
- Electrical components rated for hazardous service.
- Inlet baffle with target plate.
- Full internal service grid.
- Standard legs.
- Standard exterior access platform.



- Quick release bag clamp (bottom bag removal only).
- High efficiency filter bags, in a variety of materials.

Best Available Copy



SYSTEM 2

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



ECEIVE DVICTORIA J. TSCHINKEL

NOV 2 8 1988

WILLIAM K. HENNESSEY DISTRICT MANAGER

:	OF NOT		
APPLICATI	ON TO OPERATE/CONSTRUC	DER-BAC T AIR POLLUTION	M SOURCES
SOURCE TYPE: Air Pollut	ion [New ^l [] Exi	isting ¹
APPLICATION TYPE: [X] Cons	truction [] Operation	n [] Modifica	ition
COMPANY NAME: Gold Bond Bui	lding Products, Divisi	on of National	COUNTY: Hillsberough
Gypsum Compan Identify the specific emiss	ion point source(s) &	dressed in this	s application (i.e. Lime Joint Compound
Kiln No. 4 with Venturi Scr	ubber; Peaking Unit No	. 2, Gas Fired	Polystyrene Storage
SOURCE LOCATION: Street 6	110 Commerce Street		Bin Port Tampa
UIM: Eas	t_17-347.3	North	3.082.7
Latitude	27 • 52 י איי	Longi	tude <u>02 • 33 '</u> "W
APPLICANT NAME AND TITLE:	R. G. Moore, Plant Ma	nager	
APPLICANT ADDRESS: 6110 Co	mmerce Street, P. O. B	ox 19307, Tampa	, FLA 33616
SECTIO	n I: Statements by Al	PLICANT AND ENG	CINEER
A. APPLICANT	•		Gold Bond Building Produ
I am the undersigned ow	mer or authorized repr	esentative* of	Division of National Gyp
I certify that the stat	ements made in this ap	plication for a	Company Construction Ledge and belief. Furth
I agree to maintain at	nd operate the pollut	ion control so	urce and pollution cont:
Statutes, and all the r	ules and regulations of	f the departmen	on of Chapter 403, Flor at and revisions thereof.
also understand that a and I will promptly not establishment.	permit, if granted by ify the department up	the departmen on sale or lega	t, will be non-transferal l transfer of the permit
*Attach letter of authoriza	tion Signed	:	
	_	. Moore, Plant 1	Manager
•		Name and Title	(Please Type)
	Date:	Tele	phone No. (813)839-2111
B. PROFESSIONAL ENGINEER R	EGISTERED IN FLORIDA	where required	by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project hat been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, the

Page 1 of 12

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1)

Effective October 31, 1982

pollution acurces.	Padamshi H. Chheda
•	Name (Please Type) Gold Bond Building Products, Division of Nat
	Company Name (Please Type) 2001 Rexford Road, Charlotte, N. C. 28211
•	Hailing Address (Please Type)
ida Registration No	28433 Date: 10/10/85 Telephone No. (704)365-7238
S	SECTION II: GENERAL PROJECT INFORMATION
whether the project winecessary.	onta in source performance as a result of installation. State ill result in full compliance. Attach additional sheet if " are ground and air conveyed with 360 CFM air to a holding bin
with a 90 square foo	t Baghouse which will result in full compliance.
Schedule of project co	overed in this application (Construction Permit Application On
Schedule of project co Start of Construction Costs of pollution con for individual compone Information on actual	
Schedule of project co Start of Construction Costs of pollution con for individual compone Information on actual permit.)	December 1, 1988 Completion of Construction June 1, 1989 Strol system(s): (Note: Show breakdown of estimated costs on onts/units of the project serving pollution control purposes.
Schedule of project co Start of Construction Costs of pollution con for individual compone Information on actual permit.)	December 1, 1988 Completion of Construction June 1, 1989 atrol system(s): (Note: Show breakdown of estimated costs on onts/units of the project serving pollution control purposes. costs shall be furnished with the application for operation
Schedule of project co Start of Construction Costs of pollution con for individual compone Information on actual permit.)	December 1, 1988 Completion of Construction June 1, 1989 atrol system(s): (Note: Show breakdown of estimated costs on onts/units of the project serving pollution control purposes. costs shall be furnished with the application for operation
Schedule of project co Start of Construction Costs of pollution con for individual compone Information on actual permit.) Estimated cost of ins	December 1, 1988 Completion of Construction June 1, 1989 atrol system(s): (Note: Show breakdown of estimated costs on onts/units of the project serving pollution control purposes. costs shall be furnished with the application for operation

en diskoning tip og program fra til state i det i d

	f this is a new source or major modification, answer the following quest. Yes or No)	ions.
1	. Is this source in a non-attainment area for a particular pollutant?	Yes
	a. If yes, has "offset" been applied?	No
	b. If yes, has "Lowest Achievable Emission Rate" been applied?	No
	c. If yes, list non-attainment pollutants. Particulates	
2	Does best evailable control technology (BACT) apply to this source? If yes, see Section VI.	No
3.	Does the State "Prevention of Significant Deterioristion" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	No
4.	Do "Standards of Performance for New Stationary Sources" (NSPS) - apply to this source?	No
5 .	Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	No
	"Reasonably Available Control Technology" (RACT) requirements apply this source?	Yes
. · " .	a. If yes, for what pollutants? Particulates	

E. Requested permitted equipment operating time: hrs/day = 24; daya/wk = 7; wks/yr = 52;

if power plant, hrs/yr____; if aeasonal, describe:_____

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicables

	Contaminants		Utilization			
Description	Туре	2 Wt	Rate - lbs/hr.	Relate to Flow Diagram		
Polystyrene	Particulate	Unknown	40 LBS/HR	Flow Chart Attached		
				· · · · · · · · · · · · · · · · · · ·		

в.	Process Rate, if applicable: (See Sec	tion V, Item 1)	
	1. Total Process Input Rate (lbs/hr):	40 #/HR	_
	2. Product Weight (lbs/hr):	40 #/HR	

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of	Emiss		Allowed ² Emission Rate per	Allowable ³ Emission	Potenti Emissi		Relate to Flow
Conteminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lb*/hr	1bs/xxHr	T/yr	Diagram
Polystyrene Particulate	.09	.40	N/A	N/A	30.8	134.5	See Chart
			•				
				·-· -		,	
s 7:							

¹ See Section V, Item 2.

²Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) = 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable atandard.

⁴Emission, if source operated without control (See Section V, Item 3).

D.	Control	Devices:	(5ee	Section	٧,	Item	4)	

Name and Type (Model & Serial No.)	Conteminent	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Flex-Kleen #				
58-BU-9-II	Particulate	99%+	Unknown	Estimate
,		,		
_ , ,				

E. Fuels N/A

	Consum	ption*	
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)
,			
·	-	·	

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fire	Ane	lve	•

Percent Sulfur:		Percent Ash:	<u> </u>
Density:	lbs/gal	Typical Percent Nitrogen:	
Heat Capacity:	BTU/16		BTU/gal
Dther Fuel Contaminants (w	hich may cause air p	ollution):	
F. If applicable, indicat	e the percent of fus	l used for space heating.	
Annual Average	Hs	×imum	

E. Indicate liquid or solid wastes generated and method of disposal.

DER Form 17-1.202(1) Effective November 30, 1982

9.	The appropriate application fee in accomade payable to the Department of Enviro	rdance with Rule 17-4.05. The check should be onmental Regulation.
10.	With an application for operation permitatruction indicating that the acurce permit.	it, attach a Certificate of Completion of Con- was constructed as shown in the construction
	SECTION VI: BEST AVAI	ILABLE CONTROL TECHNOLOGY N/A
٨.	Are standards of performance for new at applicable to the source?	ationary sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No '	
	Contaminant	Rate or Concentration
_		
8.	Has EPA declared the best available coryes, attach copy)	ntrol technology for this class of sources (If
	[] Yes [] No	
	Conteminant	Rate or Concentration
		-
	•	
с.	What emission levels do you propose as b	nest available control technology?
	Contaminant	Rate or Concentration
	·	
D.	Describe the existing control and treatm	ent technology (if any).
	1. Control Device/System:	2. Operating Principles:
	3. Efficiency:*	4. Capital Costs:
+Ex	plain method of determining	•

Page 8 of 12

DER Form 17-1.202(1)

Effective November 30, 1982

N/A Useful Life: 6. Operating Costs: .7. Energy: 8. Maintenance Cost: 9. Emissions: Contaminant Rate or Concentration 10. Stack Parameters ft. Height: Dismeter: ft. ·F. ACFH d. Temperature: Flow Rate: FPS Velocity: Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). ı. Control Device: b. Operating Principles: c. Efficiency: 1 d. Capital Cost: e. Useful Life: f. Operating Cost: g. Energy: 2 h. Maintenance Cost: i. Availability of construction materials and process chemicals: j. Applicability to manufacturing processes: k. Ability to construct with control device, install in available space, and operate within proposed levels: 2. Control Device: b. Operating Principles: Efficiency: 1 d. Capital Cost: · c. Useful Life: Operating Cost: g. Energy:² Maintenance Coat: Availability of construction materials and process chemicals: $^{\mathrm{I}}$ Explain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH design rate.

.

DER Form 17-1.202(1) Effective November 30, 1982

N/A Applicability to manufacturing processes: j. Ability to construct with control device, install in available space, and operate within proposed levels: **3**. Control Device: Operating Principles: Efficiency: 1 Capital Costs Useful Life: Sperating Cost: Energy: 2 Maintenance Cost: Q. Availability of construction materials and procese chemicals: Applicability to manufacturing processes: j. Ability to construct with control device, install in available space, and operate within proposed levels: 4. Control Device: Operating Principles: Efficiency: 1 Capital Costs: Operating Cost: Useful Life: Energy: 2 Maintenance Cost: q. Availability of construction materials and process chemicals: Applicability to manufacturing processes: j. Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: Control Device: Efficiency: 1 Capital Cost: Useful Life: Energy: 2 Operating Cost: 'Maintenance Cost: Manufacturer: Other locations where employed on similar processes: (1) Company: (2) Mailing Address:

DER Form 17-1.202(1) Effective November 30. 1982

IExplain method of determining efficiency.

(3) City:

 2 Energy to be reported in units of electrical power – KWH design rate.

(4) State:

(5) Environmental Manager:	N/A				
(6) Telephone No.:					
(7) Emissions: ¹					
Contaminant			Rate or C	oncentrat	ion
(8) Process Rate: 1					
b. (1) Company:					
(2) Mailing Address:					
(3) City:		(4) State:			
(5) Environmental Manager:					
(6) Telephone No.:		•			
(7) Emissions: ¹		en.			
Conteminant		•	Rate or C	concentrat	ion
				,	
(8) Process Rate: 1					
10. Reason for selection an	d descriptio	n of systems:			
Applicant must provide this in available, applicant must state	formation who the reason(en available. s) why.	Should	this inf	ormation not l
SECTION VII -	PREVENTION	OF SIGNIFICANT	DETERIOR	ATION .	
A. Company Monitored Data					
no. sites	TSP	()	50 ²		Wind apd/dir
Period of Monitoring	. <u>/</u>	to		<u>/</u>	•
Other data recorded					
Attach all data or statistic					
					•
*Specify bubbler (B) or continuo	us (C).				
DER Form 17-1.202(1)					

Page 11 of 12

Effective November 30, 1982

	2.	Instrument	ation, Fleid	and Labo	ratory	N/ A					
	e.	Was instru	mentation EPA	\ referen	ced or its	equivale	nt?	[] Yes	I] N	٥	•
	b.	Was instru	mentation cal	ibrated	in accordan	ce with	Depsi	tment p	rocedur	es?	
		[] Yes [] No [] Un	known							
8.	Mat	eorological	Data Used fo	r Air Qu	ality Model	ing					
	1.	Year	(e) of data f	rom	/ / h day yea	to mon	th d	/ *y y**	r		
	2.	Surface da	ta obtained f	ros (loc	ation)						
	3.	Upper air	(mixing heigh	t) deta	obtained fr	om (loca	tion)				
	4.	Stability	wind rose (ST	AR) data	obtained f	rom (loc	ation)			
c.	Com	puter Model	s Úsed								-
	1.					_ Modifi	ed?	If yes,	attach	descr	iption.
	2.	N.,				_ _ Modifi	ed?	If yes,	attach	descr	iption.
	3.					- Modifi	ed?	If yes.	attach	descr	iption.
	4.	· · · · · · · · · · · · · · · · · · ·	•								
	Att	ach copies le output t	of all final								
D.	Арр	licants Max	imum Allowabl	e Emissi	on Date	N/A					-
	Pol	lutant		Emissi	on Rate						
		TSP				·	gram	8/88C			
		50 ²	·				gram	8/8ec			•
E.	Emi	ssion Data	Used in Model				•				
	poi	nt source (emission sou on NEDS point rating time.								

- F. Attach all other information supportive to the PSD review.
- G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the anvironmental impact of the acurces.
- H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

SECTION V POLYSTYRENE STORAGE BIN

1. Process Rate

40 LBS/HR

2. Controlled Emissions Estimate

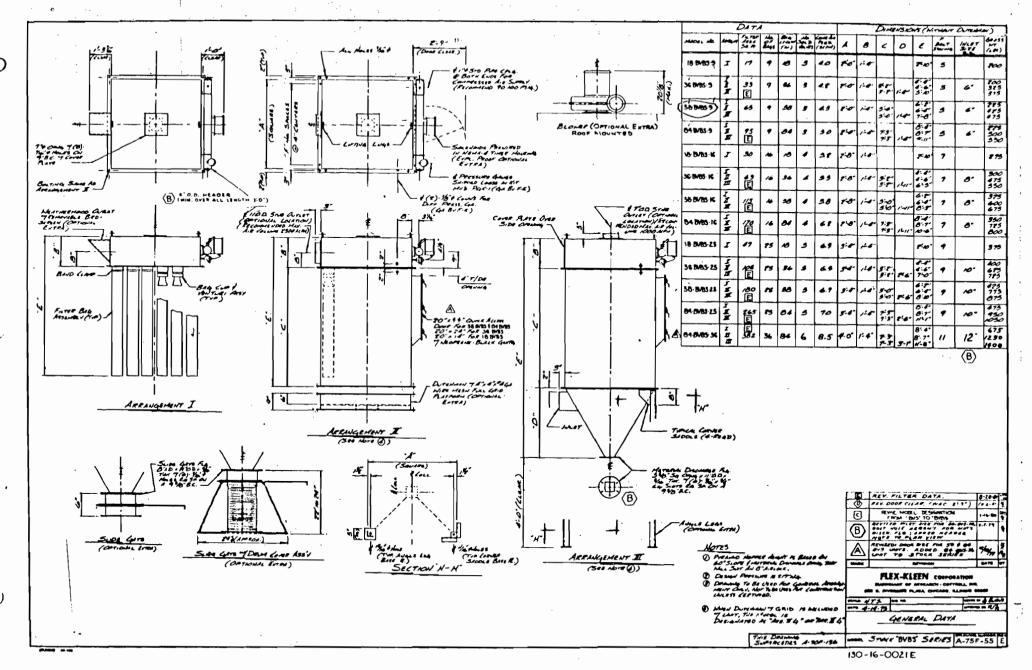
.03 GRS/DSCF x 360 DSCFM x 60 ÷ 7000 = 0.09 LBS/HR. TONS/YR = .09#/HR x 8736 HRS ÷ 2000 = 0.40 T/YR

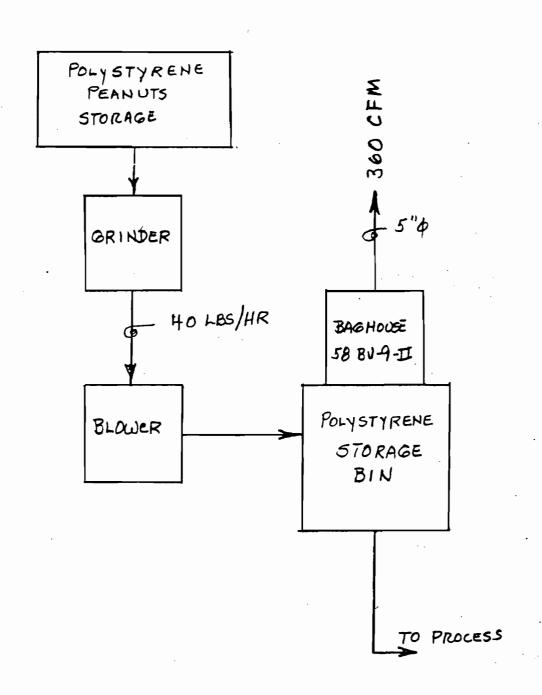
3. Uncontrolled Potential Emissions Estimate

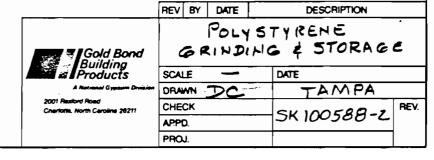
Estimated inlet grain loading = 10 GRS/DSCF 10 GRS/DSCF x 360 DSCFM x $60 \div 7000 = 30.8$ LBS/HR. TONS/YR = 30.8 #/HR x 8736 HRS $\div 2000 = 134.5$ TONS/YR

- 4. Baghouse Air/Cloth Ratio = $360/90 = 4.0:1^{-5.5}$
- 5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.
- 6. Flow chart attached.
- 7. Plot plan (plant location) attached.
- 8. Plot plan (equipment location) attached.
- 9. Application Fees: \$365 County Attached \$100 State

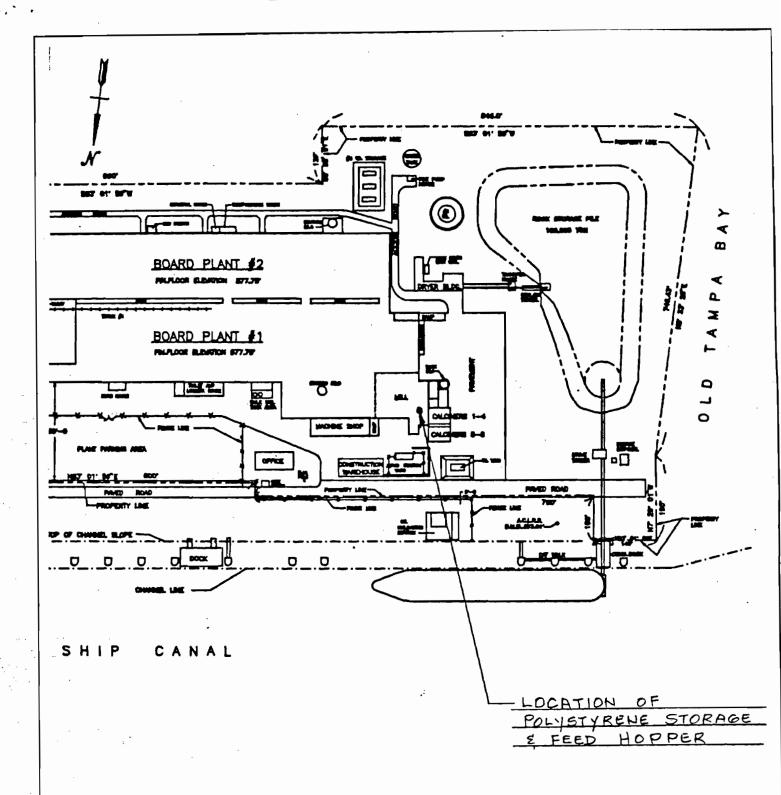
Best Available Copy







NG 7



	REV	BY	DATE	DESCRIPTION
Gold Bond Building	, . F	OL.	YSTY	RENE STORAGE
Products	SCA	LE.	_	DATE
A Notional Gyptum Druminn	DRA	WN	DC	TAMPA
2001 Restord Road Cheriotte, North Caroline 26211	CHE	CK		SK 100788-1 REV.
	APP	D.		32 100 100 1
	PRC	IJ.		

System 3.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7501 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



VICTORIA J. TSCHINKEL BECRETARY

WILLIAM K. HENNESSEY DISTRICT MANAGER

NOV 2 8 1988

DER - BAOM

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Air Pollution	_ [X] New ¹ [] Existing ¹
APPLICATION TYPE: [X] Construction [] Ope	ration [] Modification
COMPANY NAME: Gold Bond Building Products, D	ivision of National county: Hillsborough
Gypsum Company Identify the specific emission point source(Kiln No. 4 with Venturi Scrubber; Peaking Un	Joint Compound
SOURCE LOCATION: Street 6110 Commerce Stre	Honner
UTM: East 17-347.3	North 3.082.7
Latitude 27 52	'N Longitude 02 ° 33 ' 'W
APPLICANT NAME AND TITLE: R. G. Moore, Pla	
APPLICANT ADDRESS: 6110 Commerce Street, P.	J. BOX 1930/, lampa, FLA 33010
SECTION I: STATEMENTS	BY APPLICANT AND ENGINEER
A. APPLICANT	Gold Bond Building Product representative* of Division of National Gypsus
I certify that the statements made in the permit are true, correct and complete to I agree to maintain and operate the particular facilities in such a manner as to compostatutes, and all the rules and regulationals of understand that a permit, if grant-	Company is application for a Construction the best of my knowledge and belief. Furthe ollution control source and pollution controlly with the provision of Chapter 403, Floridons of the department and revisions thereof. End by the department, will be non-transferable tupon sale or legal transfer of the permitted
*Attach letter of authorization S	igned:
<u>.</u> .	R. G. Moore, Plant Manager Name and Title (Please Type)
<u>D</u>	Telephone No. (813)839-2111
B. PROFESSIONAL ENGINEER REGISTERED IN FLOR	IDA (where required by Chapter 471, F.S.)
This is to certify that the engineering	features of this pollution control project has

Esee Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 17

been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in t permit application. There is reasonable assurance, in my professional judgment, the



the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable etatutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, applicable, applicable, applicable.

•	on sources.	enall (
		Signed FM LLL
•		Padamshi H. Chheda
	• •	Name (Please Type) Gold Bond Building Products, Division of National
	•	Gypsum Company
		Company Name (Please Type)
•		2001 Rexford Road, Charlotte, NC. 28211
rida Reg	istration No. 2843	Mailing Address (Please Type) 3 Date: 10/10/88 Telephone No. (704)365-7238
•		ON II: GENERAL PROJECT INFORMATION
and exp	ected improvements the project will r	tent of the project. Refer to pollution control equipment in source performance as a result of installation. State esult in full compliance. Attach additional sheet if
This	is a Holding Hopper	for ground polystyrene. It is blower fed with 360 CFM air
and h	as a $\sqrt{90}$ square foot.	Baghouse which will result in full compliance.
and h	as a (90 square foot	Baghouse which will result in full compliance.
and h	T	Baghouse which will result in full compliance.
Schedulo	of project covere	d in this application (Construction Permit Application Onl
Schedule Start o	of project covere	d in this application (Construction Permit Application Onleander 1, 1988 Completion of Construction June 1, 1988
Schedule Start of Costs of for ind	of project covered for construction Decipolation control ividual components/tion on actual cost	d in this application (Construction Permit Application Onlean Onlean Permit
Start of Costs of for ind. Informat parmit.	f Construction Decipolation control ividual components/tion on actual cost	d in this application (Construction Permit Application Only ember 1, 1988
Start of Costs of for ind. Informat parmit.	f Construction Decipolation control ividual components/tion on actual cost	d in this application (Construction Permit Application Onlogember 1, 1988 Completion of Construction June 1, 1988 system(s): (Note: Show breakdown of estimated costs onlunits of the project serving pollution control purposes. shall be furnished with the application for operation
Start of Costs of for ind. Informat parmit.	f Construction Decipolation control ividual components/tion on actual cost	d in this application (Construction Permit Application Only ember 1, 1988
Start of Costs of for ind. Informat parmit.	f Construction Decipolation control ividual components/tion on actual cost	d in this application (Construction Permit Application Only ember 1, 1988
Start of Costs of for ind. Informat parmit.	f Construction Decipolation control ividual components/tion on actual cost	d in this application (Construction Permit Application Onlogember 1, 1988 Completion of Construction June 1, 1988 system(s): (Note: Show breakdown of estimated costs onlunits of the project serving pollution control purposes. shall be furnished with the application for operation
Schedule Start of Costs of for ind: Informat permit. Estim	f Construction Decomposition on actual cost of instal	d in this application (Construction Permit Application Onlember 1, 1988 Completion of Construction June 1, 1988 system(s): (Note: Show breakdown of estimated costs onlunits of the project serving pollution control purposes. shall be furnished with the application for operation

4.	
If this is a new source or major modification, answer the following quest	ions.
1. Is this source in a non-attainment area for a particular pollutant?	Yes
a. If yes, has "offaet" been applied?	No
b. If yes, has "Lowest Achievable Emission Rate" been applied?	No .
c. If yes, list non-attainment pollutants. Particulate	
 Does best available control technology (BACT) apply to this source? If yes, see Section VI. 	No
 Does the State "Prevention of Significant Deterioristion" (PSD) requirement apply to this source? If yes, see Sections VI and VII. 	No
4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	No
5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	No
Do "Reasonably Available Control Technology" (RACT) requirements apply to this source?	Yes
a. If yes, for what pollutants? Particulates	

· \$20,000,000

1. 大部门(1.5 m) 11 · 3

b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered quastionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

•	Contam	inantz	Utilization	
Description	Type	% Wt	Rate - lbs/hr	Relate to Flow Diagram
Polystyrene	Particulates	Unknown	40 LBS/HR	Flow Chart Attached
	•			

1. Total Process Input Rate (lbs/hr): 40 #/HR	٠.	Process wate, it applicable: (3	ee section v, item 1)	
		1. Total Process Input Rate (1b	s/hr):40 #/HR	

2.	Product	Weight	(lbs/hr):	40 #/HR
••		4070110	(100/ 111/ 1	10 11 / 11.

C. Airborne Contaminanta Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of	Emiss	ionl	Allowed ² Emission Rate per	Allowable ³ Emission	Potenti: Emissio		Relate to Flow
Contaminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbe/wwx Hr	T/yr	Diagram
Polystyrene Particulate	.09	.40	N/A	N/A	30.8	134.5	See Chart
					·		·
			·				
	· ·						

¹ See Section V, Item 2.

Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard.

⁴Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Flex-Kleen #			•	
58-BU/9/II	Particulate	99%+	Unknown	Estimate
`				
	·			
				·

E. Fuels N/A

	Consumpt	ion*	
Type (Be Specific)	avq/hr	max./hr	Maximum Heat Input (MMBTU/hr)

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel	Anal	ya:	. 5 :
------	------	-----	-------

Percent Sulfur:		Percent Ash:	
Density:	lbs/gal	Typical Percent Nitrogen:	
Heat Capacity: BTU/			BTU/gal
Bther Fuel Contaminants (which me			
F. If applicable, indicate the		1 wood for space besting	
Annual Average		xiaua	·
G. Indicate liquid or solid was	tea generated	and method of disposal.	

CECK HATA	ht:	40		ft. :	Stack Diemete	r:	
as Flow R	ate:	360 ACFM_	360	_DSCFH (Gas Exit Temp	erature: A	mbient • F
ater Vapo	r Content:	Ar	mbient	* '	Velocity:		FP
					TOR INFORMAȚI		
Type of Waste					II Type IV e) (Patholog- ical)		Type VI (Solid By-prod.)
Actual Ib/hr Inciner- ated							
Uncon- trolled (1bs/hr)	* ;	2.0					
•							
ctal Weig	ht Incinera	eted (lbs/h	r)	per day	Design Cap	wk	
ctal Weig pproximat anufactur	ht Incinera e Number of	eted (lbs/h	r)	per day	Design Cap	wk	hr)wks/yr
otal Weig pproximat anufactur	ht Incinera e Number of	eted (lbs/h	r)	per day	Design Cap	wk	wks/yr
otal Weig pproximat anufactur ata Const	ht Incinerate Number of er	eted (lbs/h f Hours of	r)	per day Model	Design Cap day/ L No	wk	Wks/yr
pproximat anufactur ata Const Primary C	ht Incinerate Number of er	Volume (ft)	Operation Heat R (BTU	per day Model elease /hr)	Design Cap day/ L No Fuel Type	BTU/hr Stack T	Temperature (°F)
otal Weighter Secondary	ht Incinerate Number of er	Volume (ft)	Operation Heat R (BTU	per day Model elease /hr)	Design Cap day/ L No Fuel Type	BTU/hr Stack T	Temperature (°F)
pproximat anufactur ata Const Primary C Secondary tack Height as Flow R If 50 or c ard cubic	ht Incinerate Number of er	Volume (ft)3	Heat R (BTU	per day Model elease /hr) ster:	Design Cap day/ L No Fuel Type DSCFM* ait the emiss air.	BTU/hr Stack T Velocity: ions rate i	Temperature (*F)

Jet Pi					•	
	."					
					,	
						
						
	posal of any e	ffluent other	than that emitte	d from the	stack (scrubbe	r water
sh, etc.):	posal of any en			d from the	stack (scrubbe	r water
h, etc.):				d from the	stack (scrubbe	r water
ih, etc.):				d from the :	stack (scrubbe	r water

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

SECTION V: SUPPLEMENTAL REQUIREMENTS Attached

14

Please provide the following supplements where required for this application.

, f

- 1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 abould be consistent: actual emissions = potential (1-efficiency).
- 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the eurrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic msp).
- 8. An 8 $1/2^n \times 11^n$ plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

DER Form 17-1.202(1) Effective November 30, 1982

9.	The appropriate application fee in a made payable to the Department of Env	ccordance with Rule 17-4.05. The check should be ironmental Regulation.
10.	With an application for operation pestruction indicating that the source permit.	ermit, attach a Certificate of Completion of Con- e was constructed as ahown in the construction
	SECTION VI: BEST A	VAILABLE CONTROL TECHNOLOGY N/A
۸.	Are atandards of performance for new applicable to the source?	atationary sources pursuant to 40 C.F.R. Part 6
	[]Yes []No	
	Contaminant	Rate or Concentration
		
	·	
в.	Has EPA declared the best available yes, attach copy).	control technology for this class of sources (I
	[] Yes [] No	and the second of the second o
	Contaminant	Rate or Concentration
•		
	•	
Ε.	What emission levels do you propose a	s best available control technology?
	Conteminant	Rate or Concentration
D.	Describe the existing control and tre	atment technology (if any).
	1. Control Device/System:	2. Operating Principles:
	3. Efficiency:*	4. Capital Costs:
+ Fy	nlsin method of determining	

DER Form 17-1.202(1) Effective November 30, 1982

N/A Useful Life: Operating Costs: Maintenance Cost: Energy: Emissions: Contaminant Rate or Concentration 10. Stack Parameters Height: ft. ь. Diameter: ft. Flow Rate: ACFH d. Temperaturas FPS Velocity: Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). 1. Control Device: h. Operating Principles: Efficiency: 1 Capital Cost: c. Useful Life: Operating Cost: Energy: 2 Maintenance Cost: g. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 2. Control Device: Operating Principles: ... Efficiency: 1 Capital Coat: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals:

DER Form 17-1.202(1) Effective November 30, 1982

 $^{\mathrm{l}}$ Explain method of determining efficiency.

 2 Energy to be reported in units of electrical power - KWH design rate.

Applicability to manufacturing processes: N/A Ability to construct with control device, install in available apace, and operate within proposed levels: 3. Control Device: b. Operating Principles: Efficiency:1 Capital Coet: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: i. Applicability to manufacturing processes: Ability to construct with control device, install in available epace, and operate within proposed levels: 4. Control Device: Operating Principles: Efficiency: 1 Capital Costs: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in evailable apace, and operate within proposed levels: Describe the control technology selected: 2. Efficiency: 1 Control Device: Capital Cost: Useful Life: Energy: 2 5. Operating Cost: 7. Maintenance Cost: Manufacturer: Other locations where employed on similar processes: (1) Company: (2) Mailing Address: (3) City: (4) State: IExplain method of determining efficiency.

Page 10 of 12

 2 Energy to be reported in units of electrical power – KWH design rate.

F.

DER Form 17-1.202(1)

Effective November 30, 1982

(5) Environmental Manager: N/A (6) Telephone Mo.: (7) Emissions: 1 Conteminant Rate or Concentration (8) Process Rate: 1 b. (1) Company: (2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone Mo.: (7) Emissions: 1 Conteminant Rate or Concentration (8) Process Rate: 1 10. Reason for selection and description of systems: 1 applicant must provide this information when available. Should this information not it available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1		
Conteminant Conteminant Rate or Concentration (8) Process Rate: b. (1) Company: (2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Conteminant Rate or Concentration (8) Process Rate: 1 Applicant must provide this information when available. Should this information not leavellable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Date 1no. sitesTSP	(5) Environmental Manager: N	/A
(8) Process Rate: b. (1) Company: (2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: 1Applicant must provide this information when available. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1no. sitesTSP	(6) Telephone No.:	·
(8) Process Rate: 1 b. (1) Company: (2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: 1 Contaminant Rate or Concentration (8) Process Rate: 1 10. Reason for selection and description of systems: 1Applicant must provide this information when available. Should this information not available, applicant must state the reason(e) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Date 1	(7) Emissions: 1	
b. (1) Company: (2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: 1 Applicant must provide this information when svailable. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1	Contaminant	Rate or Concentration
b. (1) Company: (2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: 1 Applicant must provide this information when svailable. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1		
b. (1) Company: (2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: 1 Applicant must provide this information when svailable. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1	<u> </u>	
(2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: 1Applicant must provide this information when available. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1	(8) Process Rate:1	
(3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: 1 Applicant must provide this information when svailable. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1	b. (1) Company:	
(5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: 1Applicant must provide this information when svailable. Should this information not available, applicant must state the reason(s) why. SECTION WII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1no. sites TSP () SO ²⁺ Wind spd/dir Period of Monitoring / / to / / month day year Other data recorded	(2) Mailing Address:	
(6) Telephone No.: (7) Emissions:1 Contaminant Rate or Concentration (8) Process Rate:1. 10. Reason for selection and description of systems: 1Applicant must provide this information when available. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1no. sitesTSP() SO ²⁺ Wind spd/dir Period of Monitoring/	(3) City:	(4) State:
(8) Process Rate: 10. Reason for selection and description of systems: 1 Applicant must provide this information when available. Should this information not it available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1	(5) Environmental Manager:	
Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: 1 Applicant must provide this information when available. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1	(6) Telephone No.:	
(8) Process Rate: 1 10. Reason for selection and description of systems: 1 Applicant must provide this information when svailable. Should this information not available, applicant must state the reason(s) why. SECTION WII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1no. sitesTSP() SO ²⁺ Wind apd/dir Period of Monitoring/	(7) Emissions: 1	
10. Reason for melection and description of mystems: 1 Applicant must provide this information when available. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1	Contaminant	Rate or Concentration
10. Reason for melection and description of mystems: 1 Applicant must provide this information when available. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1		
10. Reason for melection and description of mystems: 1 Applicant must provide this information when available. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1		
10. Reason for melection and description of mystems: 1 Applicant must provide this information when available. Should this information not available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1		
Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1	(8) Process Rate: 1	
SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION A. Company Monitored Data 1no. sitesTSP() SO ² * Wind spd/dir Period of Monitoring/to/	10. Reason for selection and desc	ription of mystems:
A. Company Monitored Data 1no. sitesTSP		
A. Company Monitored Data 1no. sitesTSP		
1no. sitesTSP() S0 ² *Wind spd/dir Period of Monitoring/ to	SECTION VII - PREVE	NTION OF SIGNIFICANT DETERIORATION
Period of Monitoring / / to / / month day year month day year Other data recorded	•	
month day year month day year Other data recorded	lno. sites	TSP Wind spd/dir
Other data recorded	Period of Monitoring	th day year
	,	
	Specify bubbler (B) or continuous (C)	•

Page 11 of 12

DER Form 17-1.202(1)

Effective November 30, 1982

	2. Instrumentation, Field and Laborator	ry N/A
	a. Was instrumentation EPA referenced o	or its equivalent? [] Yes [] No
	b. Was instrumentation calibrated in ac	ccordance with Department procedures?
	[] Yes [] No [] Unknown	
B.	Meteorological Data Used for Air Quality	y Modeling
	1. Year(a) of data from / month da	y year month day year
	2. Surface data obtained from (location	1)
	3. Upper mir (mixing height) data obtai	ined from (location)
	4. Stability wind rose (STAR) data obta	ined from (location)
c.	Computer Models Used	, , , , , , , , , , , , , , , , , , ,
	1	Modified? If yes, attach description.
	2.	Modified? If yes, attach description.
	3.	Modified? If yes, attach description.
		Modified? If yes, attach description.
	Attach copies of all final model runs st	nowing input data, receptor locations, and prin
D.	Applicants Maximum Allowable Emission Da	ata .
	Pollutant Emission Ra	ite
	TSP	grams/sac
	502	grams/mec
-	Emission Data Used in Modeling	

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

- F. Attach all other information supportive to the PSD raview.
- Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). assessment of the environmental impact of the sources.
- Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

SECTION V POLYSTYRENE FEED HOPPER

1. Process Rate

40 LBS/HR

2. Controlled Emissions Estimate

.03 GRS/DSCF x 360 DSCFM x 60 ÷ 7000 = 0.09 LBS/HR. TONS/YR = .09#/HR x 8736 HRS ÷ 2000 = 0.40 T/YR

3. Uncontrolled Potential Emissions Estimate

Estimated inlet grain loading = 10 GRS/DSCF 10 GRS/DSCF x 360 DSCFM x $60 \div 7000 =$ 30.8 LBS/HR. TONS/YR = 30.8 #/HR x 8736 HRS \div 2000 = 134.5 TONS/YR

- 4. Baghouse Air/Cloth Ratio = 360/90 = 4.0:1
- 5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.
- 6. Flow chart attached.
- 7. Plot plan (plant location) attached.
- 8. Plot plan (equipment location) attached.
- 9. Application Fees: \$365 County Attached \$100 State

WR Series offers excellent filtration efficiency — for product recovery systems, large bin venting applications and general nuisance dust collection.

Advantages

The WR Series of welded pulse jet dust collectors offers:

Easy installation

Depending on size, unit may be shipped completely assembled. Or, welded sections are shop assembled for quick and easy field erection, low field labor costs.

Quick-mounting air headers
 In most cases, compressed air headers are shipped pre-wired and pre-piped, ready to mount.

- Low operating costs
- Timer reduces energy costs

Adjustable timer maintains low pressure drop, with minimum compressed air consumption. Energy costs are reduced.

- Differential pressure gauge
 Supplied as a standard item to evaluate collector operation and optimize bag cleaning capacity.
- MinImum maintenance
 No internal moving parts. Interior maintenance is greatly reduced. Collector shut-down is minimized.
- Quick bag replacement
 Bag and cage are designed to attach easily, permitting quick bag replacement.

Features

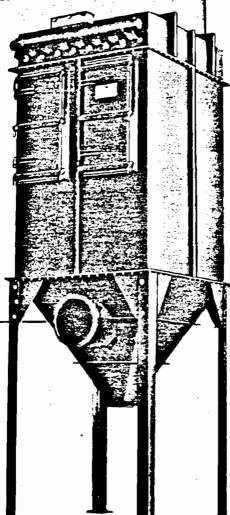
- Models available with bottom and top bag removal.
- Durable construction of welded 12 gauge hot rolled steel.
- Flanged air inlet, outlet and flanged dust discharge.
- 20" diameter top access port(s) to clean air plenum.
- Heavy gauge, cast aluminum venturis.
- · Heavy duty, smooth wire cages.
- NEMA 4 (weathertight) electricals.
- Corner saddle supports through 96 bag size.
- Six inch girth channel for continuous support – on sizes larger than 96 bags.
- Weatherproof walk-in clean air plenum (applies to top bag

removal only).

- Differential pressure and air header gauges.
- Door sills have built-in 45° slopes.

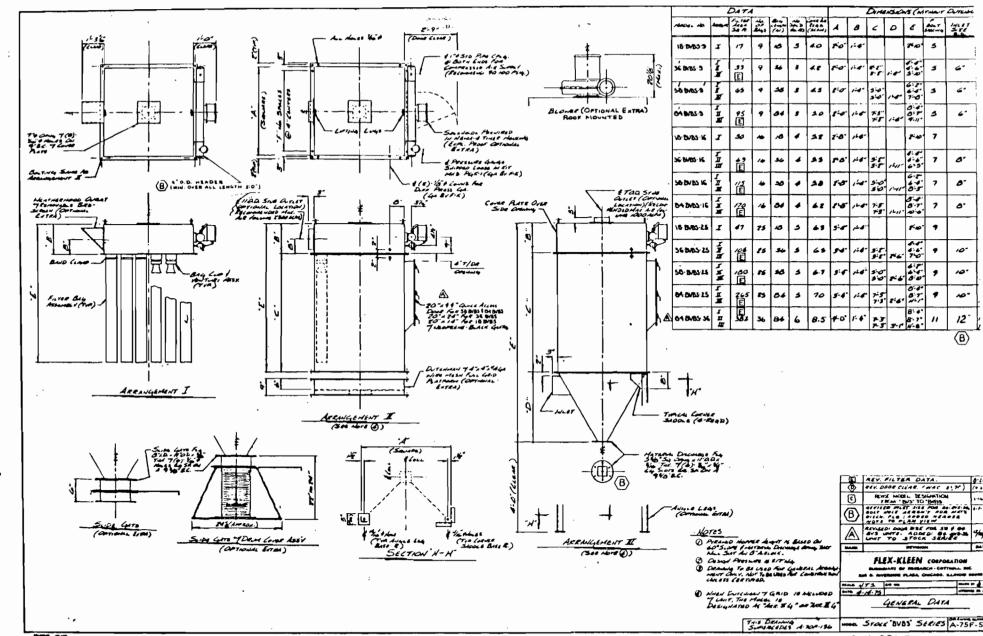
Options

- Top bag removal with lift-off doors or walk-in plenum.
- Bag cages epoxy coated or 304SS.
- Wide range of interior coatings.
- Electrical components rated for hazardous service.
- Inlet baffle with target plate.
- Full internal service grid.
- Standard legs.
- Standard exterior access platform.

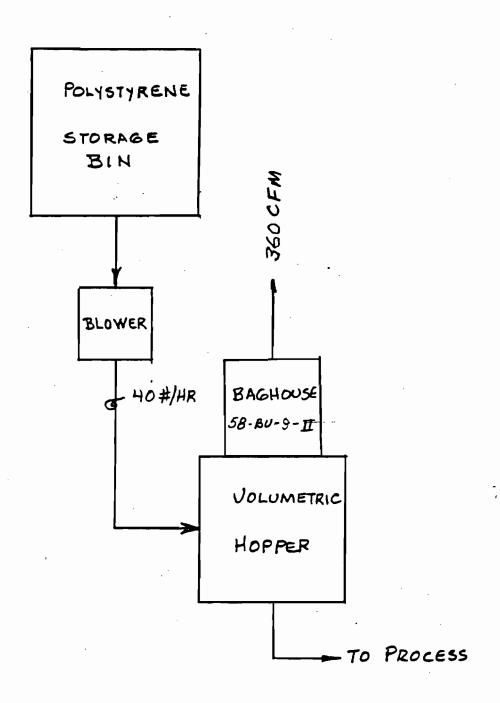


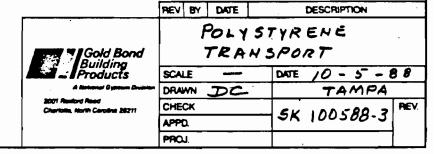
- Quick_release bag clamp (bottom bag removal only).
- High efficiency filter bags, in a variety of materials.

Best Available Copy

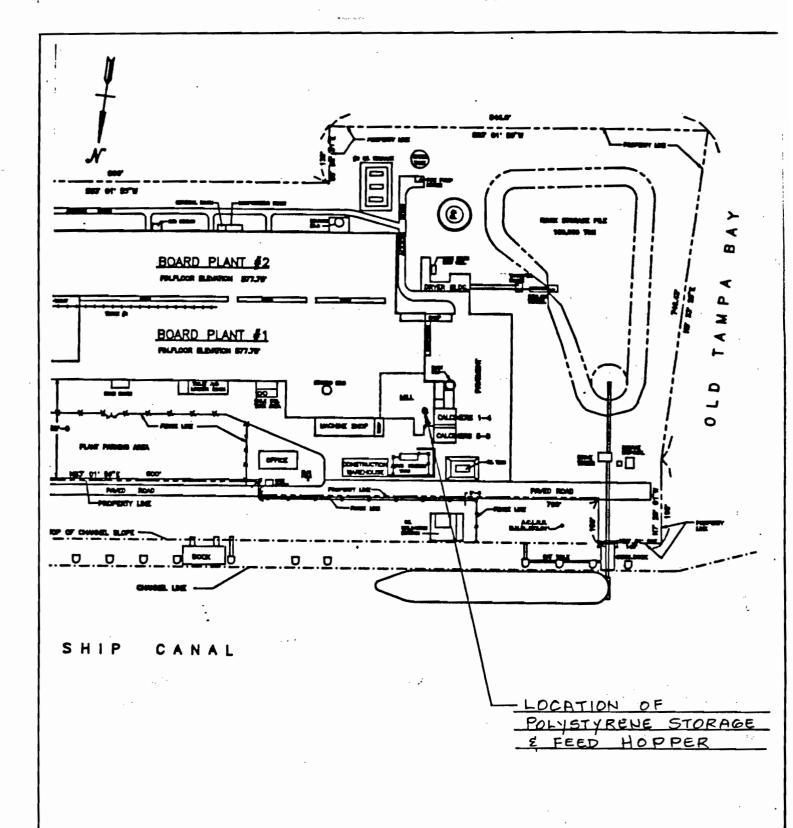


130-16-0021E

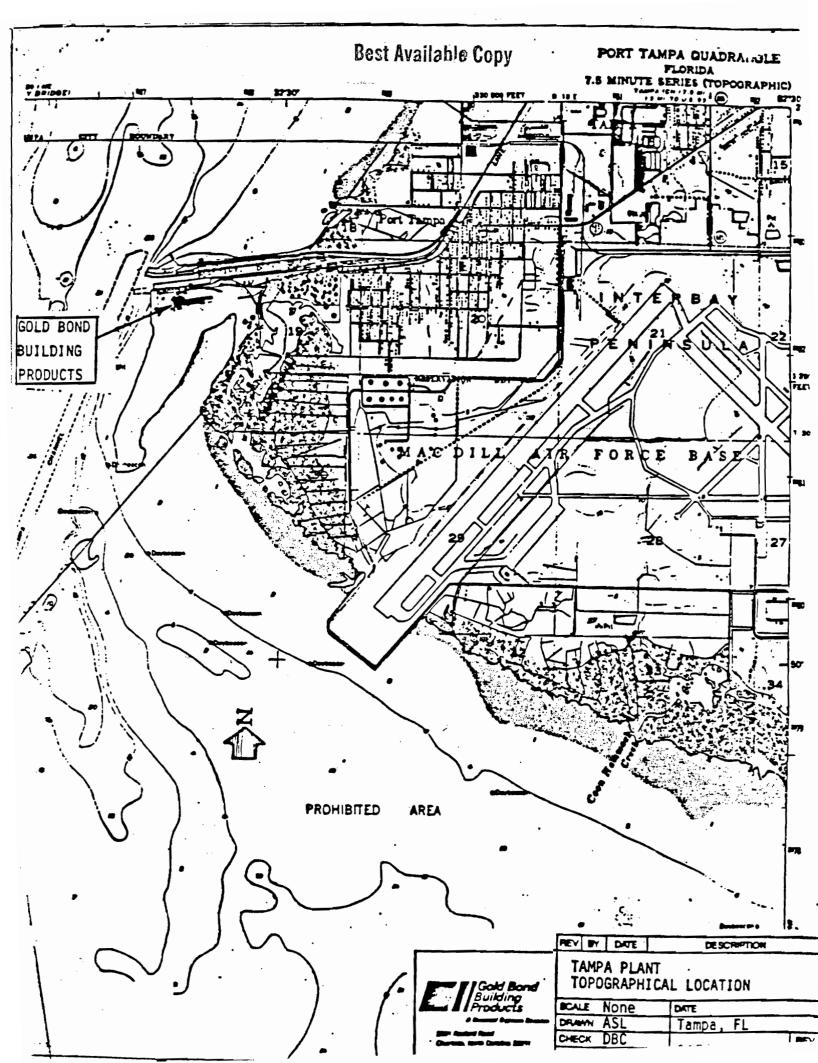




K



	REV	BY	DATE	DESCRIPTION
Gold Bond Building	F	OL.	ystyf	RENE STORAGE
Products	SCA	E	_	DATE
. A Remand Gypour Dropies	DRA	MN	DC	TAMPA
2001 Resilord Road Chartotte, North Caroline 20211	CHE	CK		SK 100788-1 REV.
	APP	D.		3K 100 188-1



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



RECEIVED

GOVERNOR DICTORIA J. TSCHINKEL SECRETARY

NOV 2 8 1988

WILLIAM K. HENNESSEY DISTRICT MANAGER

	APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES
	SOURCE TYPE: Air Pollution [X] New1 [] Existing1
`	APPLICATION TYPE: [X] Construction [] Operation [] Modification
	COMPANY NAME: Gold Bond Building Products, Division of National COUNTY: Hillsborough
	Gypsum Company Identify the specific emission point source(s) addressed in this application (i.e. Lime Joint Compound Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Dry Mixing
	SOURCE LOCATION: Street 6110 Commerce Street City Port Tampa
	UTM: East 17-347.3 North 3.082.7
	Latitude 27 52 ''N Longitude 02 33 ''W APPLICANT NAME AND TITLE: R. G. Moore, Plant Manager
	APPLICANT ADDRESS: 6110 Commerce Street, P. O. Box 19307, Tampa, FLA 33616
	SECTION I: STATEMENTS BY APPLICANT AND ENGINEER
	A. APPLICANT I am the undersigned owner or authorized representative* of Division of National Gypsu Company I certify that the statements made in this application for a Construction permit are true, correct and complete to the best of my knowledge and belief. Further I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Floring Statutes, and all the rules and regulations of the department and revisions thereof, also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permits establishment.
	*Attach letter of authorization Signed:
	R. G. Moore, Plant Manager
	Name and Title (Please Type)
	Date: Telephone No. (813)839-2111

This is to certify that the engineering features of this pollution control project has been designed/examined by me and found to be in conformity with modern engineering

principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, the

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1)

	Signed
	Padamshi H. Chheda
•	Name (Please Type) Gold Bond Building Products, Division of National Gypsum Company
	Company Name (Please Type)
	2001 Rexford Road, Charlotte, N. C. 28211 Mailing Address (Please Type)
ida Registration No	28433 Date: 10/10/88 Telephone No. (704)365-7238
	SECTION II: GENERAL PROJECT INFORMATION
which will result in	ess utilizes a ②50 square foot Baghouse to vent 700 CFM air affull compliance.
Schedule of project co	overed in this application (Construction Permit Application
Start of Construction	December 1, 1988 Completion of Construction June 1, 1989
for individual compone	ntrol system(e): (Note: Show breakdown of estimated costs ents/units of the project serving pollution control purposes costs shall be furnished with the application for operation
Estimated east of in	stalled pollution control equipment = \$20,000.00.
Estimated Cost of In	
Estimated Cost of In	
Estimated Cost of In	

Page 2 of 12

DER Form 17-1.202(1) Effective October 31, 1982

If this is a new source or major modification, answer the following quest	ions
(Yes or No)	
. Is this source in a non-attainment area for a particular pollutant?	y e s
a. If yes, has "offset" been applied?	n o
b. If yes, has "Loweat Achievable Emission Rate" been applied?	no
c. If yes, list non-attainment pollutants. particulate	
2. Does best available control technology (BACT) apply to this source? If yes, see Section VI.	no
3. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	no
Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	<u>n o</u>
. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	no
Do "Reasonably Available Control Technology" (RACT) requirements apply to this source?	y e s

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

	Contam	inants	Utilization		
Description	Type	% Wt	Rate - lbe/hr	Relate to Flow Diagram	
			:		
			!		
			i		
			-		

R.	Process	Rate.	if	applicable:	(500	Section	. Item	1	١
	LTOCESO	Nate,	— •	SANTIGENTEI	(200	Jection .		• •	,

- 1. Total Process Input Rate (lbs/hr): 5700 lbs/hr
- 2. Product Weight (lbs/hr): 5700 lbs/hr
- C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of	Emission ¹		Allowed ^Z Emission Rate per	Allowable ³	Potential ⁴ Emission		Relate to Flow
Contaminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/xx hr.	T/yr	Diagram
Particulate	0.18	0.78	N/A	N/A	90.0	393.0	
						· -	
· ·				T.			
				!			

¹ See Section V, Item 2.

²Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) = 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable atandard.

Emission, if source operated without control (See Section V, Item 3).

D. Control Devicee: (See Section V, Ite) n 4)
---	-------	---

Name and Type (Model & Serial No.)	Conteminant	Efficiency	Range of Particles Size Collected (in microna) (If applicable)	Basis for Efficiency (Section V Item 5)
Flex-Kleen				
#58-BV-25-II	Particulate	99%+	Unknown	See chart
•	<u>.</u>			

E. Fuels N/A

	Consumpt	ion*			
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)		
			. :		
	·				

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

F	ue :	 ١n	e l	v	8	1	я	ŧ
•	~~.	 	-	. 7	•	-	•	•

Percent Sulfur:		Percent Ash:	·•
Density:	lbs/gsl	Typical Percent Nitrogen:	
Heat Capacity:	BTU/16		BTU/gal
Other Fuel Contaminants (wh	ich may cause air p	ollution):	
F. If applicable, indicate	the percent of fue	l used for spacs heating.	
Annual Average	Hs	ximum	
G. Indicate liquid or soli	d wastes generated	and method of disposal.	
		•	

				,			7" di	
as Flow R	ate: 700	ACFM	700	DSCFH	Gas Exit	Temp	erature:	mbient•F
later Vapo	s Content;	<u>ambien</u>	t	\$	Velocity	·	4.4	FPFP
		SECT	ION IV:	INCINÉRA	ATOR INFO	RMATI	ON N/	' A
Type of Waste					ge) (Path			Type VI (Solid By-prod.)
Actual lb/hr Inciner- ated			:					
Uncon- trolled (Ibs/hr)				-				
escription	n of Waste			:				
otal Weigh	nt Incinera e Number of	ated (lbs/h		1	•			•
otal Weigh pproximate anufacture	nt Incinera e Number of	ated (lbs/h	Operation	per day	y	day/		wka/yr
otal Weigh	nt Incinera e Number of	ated (lbs/h	Operation Heat R	per day	y	day/	/wk	hr)wka/yr
otal Weigh pproximate anufacture ate Constr	nt Incinera	ted (lbs/h: f Hours of (Operation Heat R	per day	nl No	day/	wk	wka/yr
otal Weigh pproximate anufacture ate Constr	nt Incinera e Number of	ted (lbs/h: f Hours of (Heat R	per day	nl No	day/	wk	wka/yr
otal Weigh pproximate anufacture ate Constr Primary Ch Secondary	nt Incinera e Number of er ructed namber Chamber	Volume (ft)	Heat R	per day	Type	Fuel	BTU/hr	wka/yr
otal Weigh pproximate anufacture ate Constr Primery Ch Secondary tack Heigh	nt Incinera e Number of er ructed namber Chamber	Volume (ft) ³	Heat R (BTU	per day	Type	Fuel	BTU/hr	Temperature (*F)
otal Weigh pproximate anufacture ate Constr Primary Ch Secondary tack Heigh as Flow Ra If 50 or a	namber Chamber nt:	Volume (ft)	Heat R (BTU	per day Mode	Type DS	Fuel CFM*	BTU/hr Steck T	Temperature (*F)

DER Form 17-1.202(1) Effective November 30, 1982

Brief description	o f	operating characteristics of control devices:		
		Jet-Pulse Baghouse		
		•		
Ultimate disposal ash, etc.):	οf	any effluent other then that emitted from the stack	(scrubber	water,
		All collected material		
		is returned to process		
		•		
		6 7 8 and 10 in Section V supt he included where		

SECTION V: SUPPLEMENTAL REQUIREMENTS attached

Please provide the following supplements where required for this application.

- 1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section aketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
- 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gassous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of sirborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

DER Form 17-1.202(1) Effective November 30, 1982

•		
9.	The appropriate application fee in made payable to the Department of	n accordance with Rule 17-4.05. The check should be Environmental Regulation.
10.	With an application for operation	permit, attach a Certificate of Completion of Con- ource was constructed as shown in the construction
	SECTION VI: BES	ST AVAILABLE CONTROL TECHNOLOGY N/A
۸.		new stationary sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Contaminant	Rate or Concentration
		
		<u> </u>
_	·	
8.	Has EPA declared the best availab	le control technology for this class of sources (I
	[] Yes [] No	
	Contaminant	Rate or Concentration
		<u> </u>
	•.	
	What emission levels do you propos	e as best available control technology?
	Contaminant	Rate or Concentration
		1
_		
<u> </u>		
D.	Describe the existing control and	treatment technology (if any).
	1. Control Device/System:	2. Operating Principlea:
	3. Efficiency:*	4. Capital Coata:
#Ex	plain method of determining	
DER	Form 17-1.202(1) ective November 30, 1982	Page 8 of 12

•	. Veeful Life:	N/A	6.	Operating Costs:	
7	. Energy:		8.	Maintenance Cost:	
9	. Emissions:	•			•
~	Contami	nent		Rate or Concentration	
		······································	· -		· · · · · · · · · · · · · · · · · · ·
					:
10	O. Stack Paramete				_
4		ft.		Diameter:	ft.
C	. Flow Rate:	ACFH	d.	Temperature:	* F.
•	. Velocity:	FPS			
	escribe the contro se additional page		nolog	y available (As many types as	applicable
. 1	•	•			
a	. Control Device:		b.	Operating Principles:	
c	. Efficiency:1		d.	Capital Cost:	•
c			d. f.	Capital Cost: Operating Cost:	
	. Useful Life:	·		·	
e	. Useful Life: . Energy: ²	construction materia	f.	Operating Cost:	
e g	. Useful Life: . Energy: ² . Availability of	construction materia	f. h. ls an	Operating Cost:	
g i	 Useful Life: Energy:² Availability of Applicability to 	manufacturing proce	f. h. ls an	Operating Cost:	and operat
g i	 Useful Life: Energy:² Availability of Applicability to Ability to conswithin proposed 	manufacturing proce	f. h. ls an	Operating Cost: Maintenance Cost: d process chemicals:	and operat
e g i. j	 Useful Life: Energy:² Availability of Applicability to Ability to conswithin proposed 	manufacturing proce	f. h. ls an ases:	Operating Cost: Maintenance Cost: d process chemicals:	and operat
e g i. j. k.	 Useful Life: Energy:² Availability of Applicability to Ability to conswithin proposed Control Device: 	manufacturing proce	f. h. ls an ases:	Operating Cost: Maintenance Cost: d process chemicals: , install in available space, Operating Principles:	and operat
e g i. j. k.	 Useful Life: Energy:² Availability of Applicability to Ability to conswithin proposed Control Device: Efficiency:¹ 	manufacturing proce	f. h. ls an ases: evice b. d.	Operating Cost: Maintenance Cost: d process chemicals: , install in available space, Operating Principles:	and operat
e g i. j. k. 2.	 Useful Life: Energy:² Availability of Applicability to Ability to conswithin proposed Control Device: Efficiency:¹ 	manufacturing proce	f. h. ls an ases: evice b. d. f.	Operating Cost: Maintenance Cost: d process chemicals: , install in available space, Operating Principles: Capital Cost:	and operat

DER Form 17-1.202(1) Effective November 30, 1982

j.	Applicability to manufacturing proces			N	/A				
k.	Ability to construct with control dewithin proposed levels:	vice	, insta	all i	n ave	ilable	apace,	and	operate
3.		· 		•					
٤.	Control Device:	b.	Operat	ting	Princ	iples:			
c.	Efficiency: 1	d.	Capita	al Co	st:				
₽.	Useful Life:	f.	Operat	ing	Cost:				
g.	Energy: ²	h.	Mainte	enanc	e Cos	t:		-	
1.	Availability of construction material	6 20	d proce	88 C	hemic	als:			
j.	Applicability to manufacturing process	5 e B :							
k.	Ability to construct with control development of the control development of	vice ;	, insta	all i	n ava	ilable	space,	and	operate
4.		: \							**
۵.	Control Device:	b .	Operat	ing	Princ	iples:	en e		
c.	Efficiency: 1	, d.	Capita	al Co	sts:			·	
٠.	Useful Life:	r.	Operat	ing	Cost:				
g.	Energy: ²	h.	Mainte	enanc	e Cos	t: "		•	
i.	Availability of construction materials	s¦ an	d proce	988 C	hemic	als:			
j.	Applicability to manufacturing process	668:							
k.	Ability to construct with control deveithin proposed levels:	vice	, insta	11 i	n eve	ilable	space,	and	operate
Des	cribe the control technology selected:	i 1							
1.	Control Device:	2.	Effici	ency	:1	4 4	:	•	
3.	Capital Cost:	4.	Usefu]	Lif	e:	· . . · ·		,	
5.	Operating Cost:	6.	Energy	, : 2			•		
7.	Maintenance Cost:	8.	Hanufa	ctur	er:	-	•		
9.	Other locations where employed on sim:	ilar	proces	868;					
٠.	(1) Company:	1							•
(2)	Mailing Address:	,							
		i .							

(4) State:

Page 10 of 12

F.

(3) City:

DER Form 17-1.202(1)

Effective November 30, 1982

	(5) Environmental Manager:	N/A					
	(6) Telephone No.:						
	(7) Emissions: 1						
	Contaminant			1	Rate or	Concentr	ation :
_							
_			<u>··</u>				
	(8) Process Rate:1						
	b. (1) Company:						
	(2) Mailing Address:						
	(3) City:		(4)	States			
	(5) Environmental Manager:						
	(6) Telephone No.:						
	(7) Emissions: 1						
	Contaminant				Rate or	Concentra	ation
				<u>.</u> .			
						41	
	(8) Process Rate: 1						
	10. Reason for melection and	descripti	on of m	ystems:			
1 Ap	plicant must provide this info silable, applicant must state t	rmation w	hen aya (s) why	ilable.	Shoul	d this in	formation not
	SECTION VII - P	REVENTION	OF SIG	NIFICANT	DETERI	ORATION	N/A
A.	Company Monitored Data						
	1no. sites	TSP		()	502+ _		_ Wind apd/dir
	Period of Monitoring	month	/ /day	year to	month	day yes	ır
	Other data recorded		•				
	Attach all data or statistical	. aummarie	s to th	ia sppli	cation.		
+ 5p	ecify bubbler (B) or continuous	(C).					•••
DER	Form 17-1.202(1)						

. Page 11 of 12

Effective November 30, 1982

	2.	Instrumen	tation, Field an	d Laboratory	N/A			•
	٤.	.Was instr	umentation EPA r	eferenced or it	s equivalent?	[] Yes	[] No	<u>-</u>
	ь.	Was instr	umentation calib	rated in accord	snce with Dep	artment p	rocedure	8?
		[] Yes	[] No [] Unkn	o wn				
٨.	Het	eorologica	l Data Used for	Air Quality Mod	eling			
	1.	Yea	r(s) of data fro	m / / month day y	ear month	/ / day yea	r	
	2.	Surface d	ats obtained fro	m (location)				
	3.	Upper air	(mixing height)	data obtained	from (locatio	n)		
	4.	Stability	wind rose (STAR) data obtained	from (locati	on)		·
C.	Com	puter Mode	ls Used	:		٠		e ^{rt}
	l.			!	Modified?	If yes,	attach:	description.
		,		1		-		
	3.			· 	Modified?	If yea,	sttach	description.
	4.			· · · · · · · · · · · · · · · · · · ·	Modified?	If yes,	attach	description.
		ach copies le output f	of all final montables.	del runs ahowin	g input data,	receptor	locatio	ns, and prin
D.	App.	licants Ma:	ximum Allowable (Emission Data		•		
	Pol.	lutant	1	Emission Rate				
	*	TSP		i 	gr	ems/sec		
	9	s 0 ²		1	gr	ams/80C		
Ε.	Eni	ssion Data	Used in Modelin	9			4	
				1				

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

- F. Attach all other information supportive to the PSD review.
- Discuss the social and economic impact of the selected technology versus other applicable technologies (i.s., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.
- Attach scientific, engineering, and technical material, reports, publications, jourhals, and other competent relevant information describing the theory and application of the requested best available control technology.

SECTION V DRY MIXING

1. <u>Process Rate</u>

5700 LBS/HR.

2. Controlled Emissions Estimate

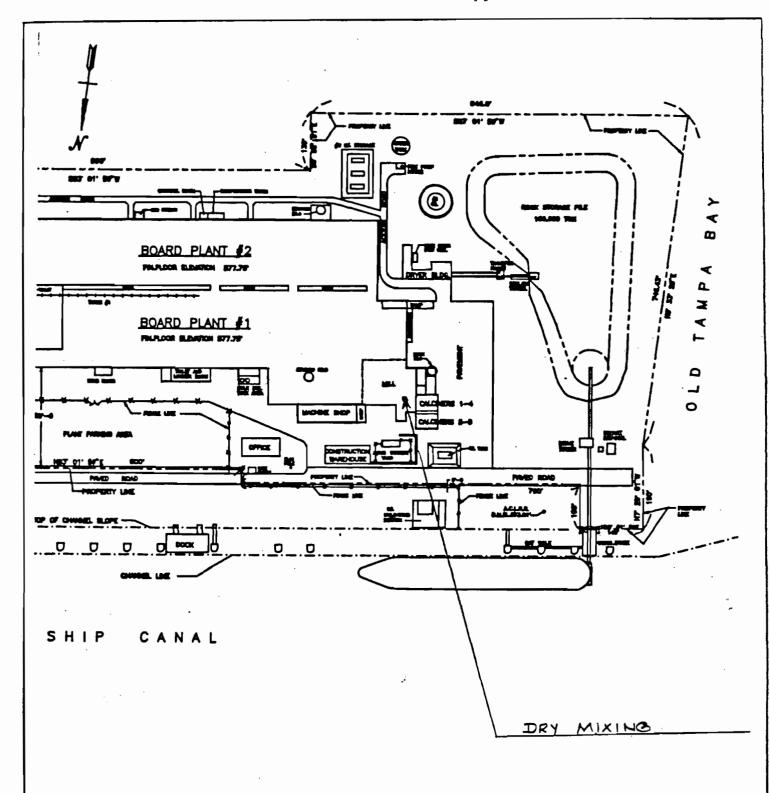
.03 GRS/DSCF x 700 DSCFM x 60 → 7000 = 0.18 LBS/HR. TONS/YR = 0.18#/HR x 8736 HRS → 2000 = 0.78 T/YR

3. Uncontrolled Potential Emissions Estimate

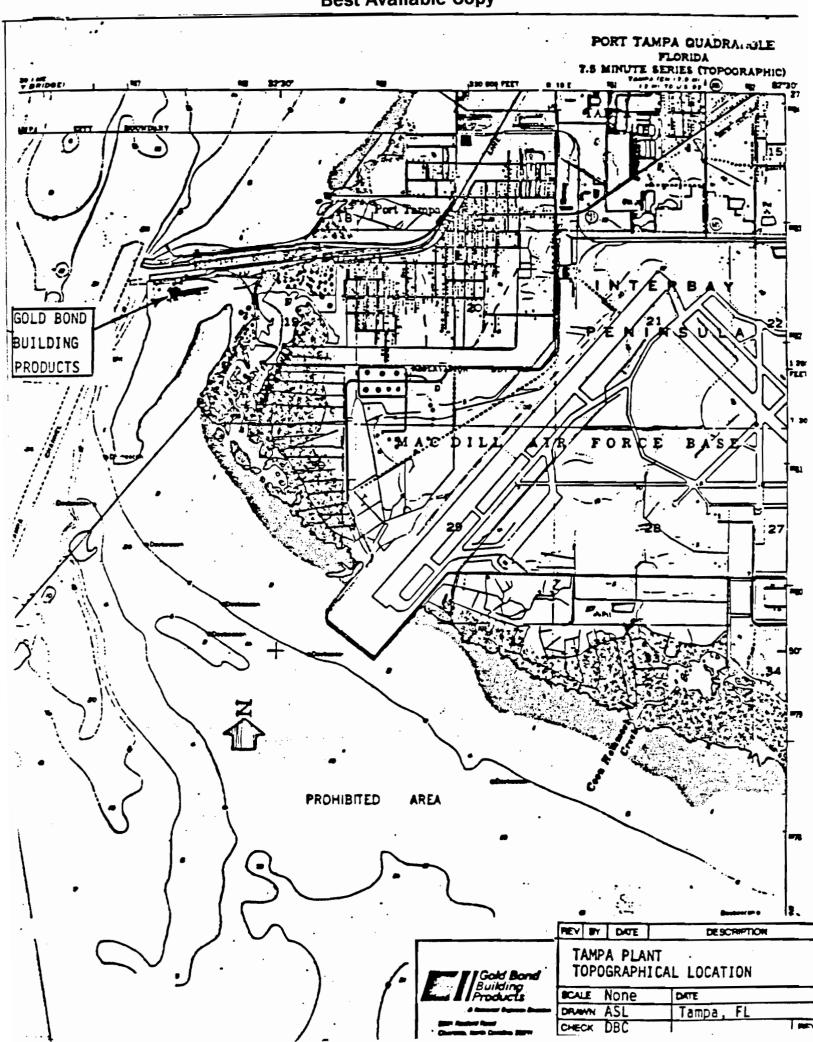
Estimated inlet grain loading = 15 GRS/DSCF 15 GRS/DSCF x 700 DSCFM x $60 \div 7000 = 90$ LBS/HR. TONS/YR = 90#/HR x 8736 HRS $\div 2000 = 393$ TONS/YR

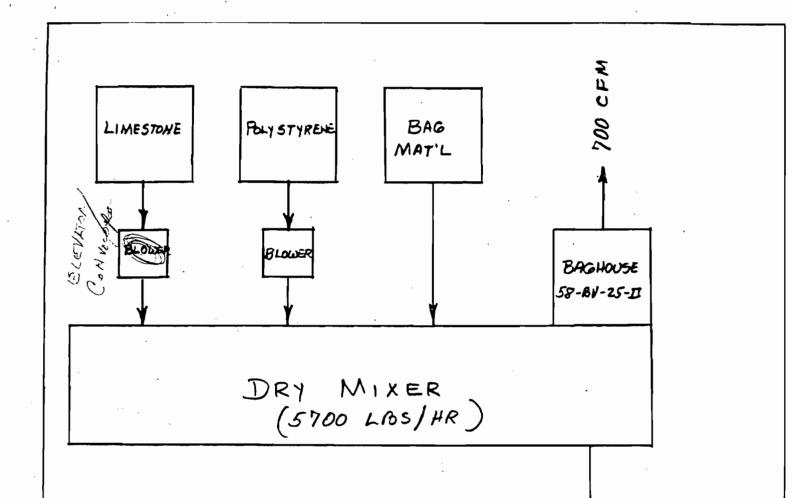
3,9

- 4. Baghouse Air/Cloth Ratio = 700/175 = 4.0:1
- 5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.
- 6. Flow chart attached.
- 7. Plot plan (plant location) attached.
- 8. Plot plan (equipment location) attached.
- 9. Application Fees: \$365 County Attached \$100 State



1	REV	BY	DATE	DESCRIPTION	
Gold Bond Building Products		_		MIXING"	
Products	SCAL	E	-	DATE	
· A Macional Gypoum Diversor	DRAW	٧N	DC	TAMPA	
2001 Restord Road Charlotte, North Caronna 20211	CHEC	CK		SK 101088-1	REV.
	APPC	<u> </u>		3K 101066-1	
	PRO	J.			





- BAG PACKING É PALLETIZING

Gold Bond
Building
Products
A former Opening Description

SCALE DATE

DRAWN DC TAMPA

CHECK
APPD.
PROJ.

DESCRIPTION

DESCRIPTION

DESCRIPTION

DRAWN DC

SCALE SCALE

DRAWN DC

SK-100588-4

REV.

NO 77

WR Series offers excellent filtration efficiency — for product recovery systems, large bin venting applications and general nuisance dust collection.

Advantages

The WR Series of welded pulse jet dust collectors offers:

- Easy installation
 - Depending on size, unit may be shipped completely assembled. Or, welded sections are shop assembled for quick and easy field erection, low field labor costs.
- Quick-mounting air headers
 In most cases, compressed air headers are shipped pre-wired and pre-piped, ready to mount.
- Low operating costs
- Timer reduces energy costs

Adjustable timer maintains low pressure drop, with minimum compressed air consumption. Energy costs are reduced.

- Differential pressure gauge
 - Supplied as a standard item to evaluate collector operation and optimize bag cleaning capacity.
- Minimum maintenance

No internal moving parts. Interior maintenance is greatly reduced. Collector shut-down is minimized.

Quick bag replacement

Bag and cage are designed to attach easily, permitting quick bag replacement.

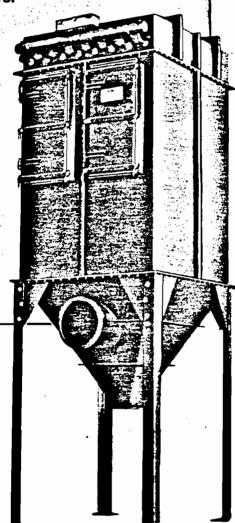
Features

- Models available with bottom and top bag removal.
- Durable construction of welded 12 gauge hot rolled steel.
- Flanged air inlet, outlet and flanged dust discharge.
- 20" diameter top access port(s) to clean air plenum.
- Heavy gauge, cast aluminum venturis.
- · Heavy duty, smooth wire cages.
- NEMA 4 (weathertight) electricals.
- Corner saddle supports through 96 bag size.
- Six inch girth channel for continuous support – on sizes larger than 96 bags.
- Weatherproof walk-in clean air plenum (applies to top bag

- removal only).
- Differential pressure and air header gauges.
- Door sills have built-in 45° slopes.

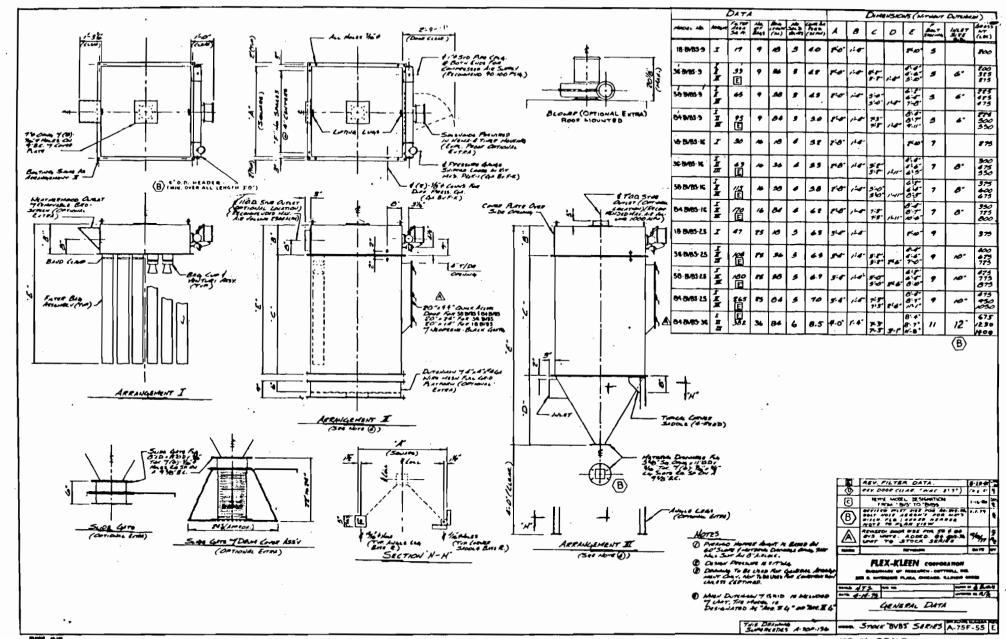
Options

- Top bag removal with lift-off doors or walk-in plenum.
- Bag cages epoxy coated or 304SS.
- Wide range of interior coatings.
- Electrical components rated for hazardous service.
- Inlet baffle with target plate.
- Full internal service grid.
- Standard legs.
- Standard exterior access platform.



- Quick release bag clamp (bottom bag removal only).
- High efficiency filter bags, in a variety of materials.

Best Available Copy



130-16-0021E



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



, ·	NUT OF NOTES	NOV 2 8 1988	DISTRICT MANAGE
APPLICATIO	ON TO OPERATE/CONSTRUCT A	III POLITUILIAN SOURCES	•
SOURCE TYPE: Air Pollutio	n , [X] »	lew [] Existing [
APPLICATION TYPE: [X] Const	ruction [] Operation	[] Modification	
COMPANY NAME: Gold Bond Bui	lding Products, Division	of National COUNTY	: Hillsborough
Gypsum Compan Identify the specific emissi Kiln No. 4 with Venturi Scru	on point source(s) addre	Joint (Compound
SOURCE LOCATION: Street 6	110 Commerce Street	City_F	Port Tampa
UTM: East	17-347.3	North 3.082.	.7
_	27 • 52 • "N	Longitude 02	• <u>33 '</u> "W
APPLICANT NAME AND TITLE:	R. G. Moore, Plant Manage	er	
APPLICANT ADDRESS: 6110 Com	merce Street, P. O. Box	19307, Tampa, FLA 33	3616
SECTION	I: STATEMENTS BY APPLI	CANT AND ENGINEER	
A. APPLICANT		Gold Rong	d Building Produc
I am the undersigned own	er or authorized represe		
I carries that the state			Construction '

I certify that the statements made in this application for a Company Construction permit are true, correct and complete to the best of my knowledge and belief. Further I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Flor: Statutes, and all the rules and regulations of the department and revisions thereof. also understand that a permit, if granted by the department, will be non-transferal and I will promptly notify the department upon sale or legal transfer of the permits establishment.

establishment.		
Attach letter of authorization	Signed:	
	R. G. Moore, Plant Manag	er
	Name and Title (Please Typ	e)
	Date: Telephone No. (813)839-2111

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have designed/examined by me and found to be in conformity with modern engineer: principles applicable to the treatment and disposal of pollutants characterized in a permit application. There is reasonable assurance, in my professional judgment, the

DER Form 17-1.202(1)

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)

Gypsum Company Company Name (Please Type) 2001 Rexford Road, Charlotte, N. C. 28211 Mailing Address (Please Type) Pride Registration No. 28433 Date: PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source perforance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988 Completion of Construction Control purposes Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000	Cold Bond Building Products, Division of National Gypsum Company Company Name (Please Type) 2001 Rexford Road, Charlotte, N. C. 28211 Reiling Address (Please Type) Pride Registration No. 28433 Date: In Cold From Road, Charlotte, N. C. 28211 Reiling Address (Please Type) SECTION II: GENERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipmer and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if mecassary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Persit Application Dr. Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 198 Costs of pollution control system(s): (Note: Show breakdown of estimated costs of for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation persit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER persite, orders and notices associated with the emission point, including persit issuence and expiration dates. None	pollution sources.	Signed BICKL
Gold Bond Building Products, Division of Nationa Gypsum Company Company Name (Please Type) 2001 Rexford Road, Charlotte, N. C. 28211 Mailing Address (Please Type) ride Registration No. 28433 Date: 10 10 15 Telephone No. 1704)365-7238 SECTION II: GENERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source performance as a result of installation. Station whether the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application of Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1980 Costs of pollution control eyetes(s): (Note: Show breakdown of estimated costs for individual components/units of the project serving pollution control purposes Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates. None	Gold Bond Building Products, Division of National Gypsum Company Company Name (Please Type) 2001 Rexford Road, Charlotte, N. C. 28211 Nailing Address (Please Type) Pride Registration No. 28433 Date: 10 C Telephone No. (704)365-7238 SECTION II: GENERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipmer and expected improvements in source perforance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Persit Application Dr. 1, 1988 Completion of Construction Jan. 1, 1980 Costs of pollution control system(s): (Note: Show breakdown of estimated costs of installed Pollution on actual costs shell be furnished with the application for operation persit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER persits, orders and notices associated with the emission point, including persit issuence and expiration dates. None	•	
2001 Rexford Road, Charlotte, N. C. 28211 Mailing Address (Please Type) rids Registration No. 28433 Date: 10 10 11 Telephone No. (704)365-7238 SECTION II: GENERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipment expected improvements in source performance as a result of installation. Statishester the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application of Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988 Costs of pollution control system(s): (Note: Show breakdown of estimated costs of for individual components/units of the project serving pollution control purposes Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	2001 Rexford Road, Charlotte, N. C. 28211 Mailing Address (Please Type) ride Registration No. 28433 Date: 10/10/12/27 Telephone No. (704)365-7238 SECTION II: GENERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional wheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application Dr. Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 198 Costs of pollution control system(s): (Note: Show breakdown of estimated costs of raindividual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices masociated with the emission point, including permit issuance and expiration dates. None		Gold Bond Building Products, Division of National Gypsum Company
rids Registration No. 28433 Date: 10 Telephone No. (704)365-7238 SECTION II: GENERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipment expected improvements in source performance as a result of installation. Stall whether the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988 Completion of Construction Dec. 1, 1988 Comp	Hailing Address (Please Type) rids Registration No. 28433 Date: 10 10 Telephone No. (704)365-7238 SECTION II: SEMERAL PROJECT IMFORMATION Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application Dr. Start of Construction Dec. 1, 1988 Completion of Construction Jgn. 1, 198 Costs of pollution control system(s): (Note: Show breakdown of estimated costs of for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None		Company Name (Please Type)
SECTION II: SENERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipmend expected improvements in source performance as a result of installation. Stationary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1980 Completion of Construction Jan. 1, 1980 Completion of Construction Jan. 1, 1981 Costs of pollution control system(s): (Note: Show breakdown of estimated costs for individual components/units of the project serving pollution control purposes Information on actual costs shall be furnished with the application for operation persit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER persits, orders and notices mesociated with the emission point, including persit issuance and expiration dates. None	SECTION II: GENERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source perforance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application Or Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1981 Costs of pollution control system(s): (Note: Show breakdown of estimated costs or for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None		2001 Rexford Road, Charlotte, N. C. 28211
Section II: General Project Information Describe the nature and extent of the project. Refer to pollution control equipmend expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application of Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1980 Completion of Constructio	Describe the nature and extent of the project. Refer to pollution control equipmer and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application Or Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1980 Completion of Construction Construction Dec. 1, 1988 Completion of Construction Construction Dec. 1, 1988 Completion of Construction Dec. 1, 1981 Construction Dec. 1, 1982 Completion of Construction Dec. 1, 1983 Completion of Construction Dec. 1, 1984 Completion of Construction Dec. 1, 1984 Completion of Construction Dec. 1, 1985 Completion of Construction Dec. 1, 1986 Completion Dec. 1, 1986 Completion Dec. 1, 1986 Completion of Construction Dec. 1, 1986 Completion Dec. 1, 1986 Completion Dec.	•	
Describe the nature and extent of the project. Refer to pollution control equipmend expected improvements in source performance as a result of installation. Statishether the project will result in full compliance. Attach additional wheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application (Start of Construction Dec. 1, 1988 Completion of Construction JRD, 1, 1988) Costs of pollution control system(s): (Note: Show breakdown of estimated costs for individual components/units of the project serving pollution control purposes Information on actual costs whell be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and appiration dates. None	Describe the nature and extent of the project. Refer to pollution control equipmend expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application Dr Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 198 Costs of pollution control system(s): (Note: Show breakdown of estimated costs of for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	ida Regietration No. 28433	Date: 10/10/ Telephone No. (704)365-7238
and expected improvements in source performance as a result of installation. Stat whether the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application (Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988 Completion of Construction Jan. 1, 1988 Completion of Construction Jan. 1, 1988 Information on actual costs as shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates. None	and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional wheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application Or Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1982 Completion of Construction Jan. 1, 1983 Completion of Construction Jan. 1, 1983 Completion of Construction Jan. 1, 1984 Completion of Construction Jan. 1, 1985 Construction of Construction Jan. 1, 1985 Completion of Cons	SECTION II	I: GENERAL PROJECT INFORMATION
whether the project will result in full compliance. Attach additional sheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application (Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1980 Completion of Construction Jan. 1, 1980 Completion on actual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates. None	and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional wheet if necessary. The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application Or Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1982 Completion of Construction Jan. 1, 1983 Completion of Construction Jan. 1, 1983 Completion of Construction Jan. 1, 1984 Completion of Construction Jan. 1, 1985 Construction of Construction Jan. 1, 1985 Completion of Cons	Describe the nature and extent	of the project. Refer to pollution control equipmen
The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application of Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988 Costs of pollution control system(s): (Note: Show breakdown of estimated costs for individual components/units of the project serving pollution control purposes Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application Or Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1980 Costs of pollution control system(s): (Note: Show breakdown of estimated costs or for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates. None	and expected improvements in so	ource performance as a result of installation. State
The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application of Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988. Costs of pollution control system(s): (Note: Show breakdown of estimated costs for individual components/units of the project serving pollution control purposes Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	The wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance. Schedule of project covered in this application (Construction Permit Application Or Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1980 Costs of pollution control system(s): (Note: Show breakdown of estimated costs or for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates. None		t in full compliance. Attach additional sheet if
Schedule of project covered in this application (Construction Permit Application (Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 19	Schedule of project covered in this application (Construction Permit Application Or Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1980 Costs of pollution control system(s): (Note: Show breakdown of estimated costs or for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices masociated with the emission point, including permit issuance and expiration dates. None		
Schedule of project covered in this application (Construction Permit Application of Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988 Completion of Construction Jan. 1, 1988 Completion of Construction Dec. 1, 1988 Completion Dec. 1	Schedule of project covered in this application (Construction Permit Application Or Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 198 Costs of pollution control system(s): (Note: Show breakdown of estimated costs or for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates. None	<u> </u>	
Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988 Costs of pollution control system(s): (Note: Show breakdown of estimated costs of individual components/units of the project serving pollution control purposes Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988 Costs of pollution control system(s): (Note: Show breakdown of estimated costs or for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices masociated with the emission point, including permit issuance and expiration dates. None	baghouse with 700 cfm air	flow & will result in full compliance.
Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988 Costs of pollution control system(s): (Note: Show breakdown of estimated costs of or individual components/units of the project serving pollution control purposes Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	Costs of pollution control system(s): (Note: Show breakdown of estimated costs or for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices masociated with the emission point, including permit issuance and expiration dates. None		
Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988 Costs of pollution control system(s): (Note: Show breakdown of estimated costs of or individual components/units of the project serving pollution control purposes Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	Costs of pollution control system(s): (Note: Show breakdown of estimated costs or for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices masociated with the emission point, including permit issuance and expiration dates. None		
Start of Construction Dec. 1, 1988 Completion of Construction Jan. 1, 1988 Costs of pollution control system(s): (Note: Show breakdown of estimated costs of individual components/units of the project serving pollution control purposes Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	Costs of pollution control system(s): (Note: Show breakdown of estimated costs or for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices masociated with the emission point, including permit issuance and expiration dates. None		
Costs of pollution control system(s): (Note: Show breakdown of estimated costs for individual components/units of the project serving pollution control purposes Information on actual costs shall be furnished with the application for operation persit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	Costs of pollution control system(s): (Note: Show breakdown of estimated costs or for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation persit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER persits, orders and notices masociated with the emission point, including persit issuance and expiration dates. None	Schedule of project covered in	this application (Construction Permit Application On
Costs of pollution control system(s): (Note: Show breakdown of estimated costs for individual components/units of the project serving pollution control purposes Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	Costs of pollution control system(s): (Note: Show breakdown of estimated costs or for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation persit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER persits, orders and notices masociated with the emission point, including persit issuance and expiration dates. None	Start of Construction Dec. 1	. 1988 Completion of Construction Jan. 1, 198
for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation persit.) Estimated cost of installed Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None		
Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	Pollution control equipment is \$15,000 Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	for individual components/units Information on actual costs sha	s of the project serving pollution control purposes.
Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	· ·	f installed
Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	Indicate any previous DER permits, orders and notices mesociated with the emission point, including permit issuance and expiration dates. None	•	
point, including permit immunce and expiration dates. None	point, including permit immunce and expiration dates. None	Estimated cost or	l equipment is \$15,000
point, including permit issuance and expiration dates. None	point, including permit immunce and expiration dates. None	Estimated cost or	l equipment is \$15,000
point, including permit issuance and expiration dates. None	point, including permit immunce and expiration dates. None	Estimated cost or	l equipment is \$15,000
point, including permit issuance and expiration dates. None	point, including permit immunce and expiration dates. None	Estimated cost or	l equipment is \$15,000
		Estimated cost of Pollution contro	
		Estimated cost of Pollution contro	ta, orders and notices mesociated with the emission
		Estimated cost of Pollution contro Pollution contro Indicate any previous DER permit point, including permit issuence	ta, orders and notices mesociated with the emission
		Estimated cost of Pollution contro Pollution contro Indicate any previous DER permit point, including permit issuence	ta, orders and notices meaociated with the emission se and expiration dates.

if power plant, hrs/yr; if seasonal, describe:	
If this is a new source or major modification, enswer the following q	questions.
1. Is this source in a non-attainment area for a particular pollutan	t? yes
a. If yez, has "offaet" been applied?	<u>no</u>
b. If yes, has "Lowest Achievable Emission Rate" been applied?	<u> </u>
c. If yea, list non-attainment pollutants. particulate	
 Does best available control technology (BACT) apply to this source If yes, see Section VI. 	no
3. Does the State "Prevention of Significant Deterioristion" (PSD) requirement apply to this source? If yes, see Sections VI and VI	no no
4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	no
5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	no
Do "Ressonably Available Control Technology" (RACT) requirements applied this source?	yes yes
a. If yes, for what pollutants? particulate	

b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

DER Form 17-1.202(1) Effective October 31, 1982

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicables

	Contan	inanta	Utilization	
Description	Type	* Wt	Rate - lbs/hr	Relate to Flow Diagram
·	·	· · · · · · · · · · · · · · · · · · ·		
			·	
			·	

B. Process Rate, if applicable: (See Section V, Item	В.	Process	Rate.	1 f	applicable:	(See	Section V		Item	,	L)
--	----	---------	-------	-----	-------------	------	-----------	--	------	---	---	---

1.	Total Pr	0088	Input	Rate	(1bs/hr):	6600	LBS/HF
1.	lotal Pr	0088	Input	Rate	(lbs/hr):	טטסס	FR2\U

,	Product	Malabt	(lbs/br):	6600	LBS/HR

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of	Emies	ionl	Allowed ² Emission Rate per	Allowable ³ Emission	Potent Emiss		Relate to Flow
Contaminant	Maximum 1bs/hr	Actual T/yr	Rule 17-2	lbe/hr	lbs/xx hr.	T/yr	Diagram
Particulate	0.18 .	0.78	N/A	N/A	90	393	-
·	_						
	4	·		i			

¹See Section V. Item 2.

²Reference applicable emission at and ards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) = 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard.

AEmission, if source operated without control (See Section V, Item 3).

D.	Control	Devicee:	(500	Section	٧.	Itam.	4)	
ν.	CONCIDI	DEATCRET	(300	3 4 6 6 7 6 11			•,	

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
FLEX-KLEEN				
#58-BV-25-II	Particulate	99%+	Unknown	estimate
	· .			
,				

E. Fuels N/A

	Consump	tion*	
Type (Be Specific)	syg/hr	wax./hr	Maximum Heat Input (MMBTU/hr)
·			
	·		

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

rmer wustassi		3	
---------------	--	---	--

Percent Sulfur:		Percent Ash:		
Density:	lbs/gsl	Typical Percent Nitrogens	<u> </u>	
Heat Capacity:	BTU/16		BTU/gal	
Bther Fuel Contaminants (which	h may cause sir p	ollution):	F1/2	
F. If applicable, indicate t	he percent of fue	l used for space heating.		
Annual Avarage	Ma	ximum		
G. Indicate liquid or solid	wastes generated	and method of disposal.		
				
				

	ht:	45	45			Stack Disseter: 7" Ø			
as Flow R	1ete:	ACFH_	700	DSCFH	Gas Exit	Тепр	erature:	mbient	
iater Vapo	r Content:	ambient	t	×	Velocity	/1	. 44		
								•	
	•	SECT	ION IV:	INCINER	RATOR INFO	RMATI	GN N/	, A	
Type of Waste					ige) (Path	olog-	(Liq.& Gas	Type VI (Solid By-prod.	
					ic	al)	By-prod.)	· .	
Actual lb/hr Inciner-						- - - 	- 1		
ated							·		
Uncon- trolled (lba/hr)							- <u>:</u>		
escriptio	n of Waste	· ·							
otal Weig	ht Incinera	ted (lbs/h	r)	[hr)	
otal Weig pproximat anufactur	ht Incinera e Number of	ted (1bs/h	r)	[
otal Weig pproximat anufactur	ht Incinera e Number of	ted (1bs/h	r)	n per da		dey/	wk		
otal Weig pproximat anufactur	ht Incinera e Number of	ted (1bs/h	r)	n per da	el No	dey/	wk	wka/yr	
otal Weig pproximat anufactur	ht Incinera e Number of	ted (1bs/h	r)	n per da	s1 No	dey/	wk		
otal Weig pproximat anufactur ate Const	ht Incinera e Number of er ructed	ted (1bs/h Hours of	r)	n per da	s1 No	dey/	wk	wka/yr	
otal Weig pproximat anufactur ate Const	ht Incinera e Number of er ructed hamber	ted (1bs/h Hours of	r)	n per da	s1 No	dey/	BTU/hr	wka/yr	
otal Weig pproximat anufactur ate Const Primery C Secondary	ht Incinera e Number of er ructed hamber Chamber	Hours of Yolume (ft) ³	Dperation Heat R (BTU	Mod Release	Type	Fuel	BTU/hr	wka/yr	
pproximatenufacturate Const	ht Incinera e Number of er ructed hamber Chamber	Volume (ft)3	Dperation Heat R (BTU	Mod Release J/hr)	Type	fuel	BTU/hr Stack T	Temperature (°F)	
otal Weig pproximat anufactur ate Const Primary C Secondary tack Heig as Flow R	ht Incinera e Number of er ructed hamber Chamber ht:	Volume (ft) ³	Operation Heat R (BTU	Mod Release J/hr)	Type DS	Fuel CFM+	BTU/hr Stack T	Temperature (°F)	
pproximat anufactur ate Const Primary C Secondary tack Heig as Flow R If 50 or ard cubic	ht Incinera e Number of er ructed hamber Chamber ht: ate:	Volume (ft) ³	Peration Heat R (BTU Stack Dia ACFM ign capaced to 50%	Mod Release J/hr)	Type DS bait the	Fuel CFM+	BTU/hr Stack T	Temperature (*F) ampF n. grains per ata	

Page 6 of 12

Brief description	of operating characteristics of control devices:					
JET PULSE BAGHOUSE						
	. *					
. *						
meh, etc.):	of any effluent other than that emitted from the stack (acrubber water,					
	. ALL COLLECTED MATERIAL IS RETURNED TO PROCESS					

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

- 1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, atc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section aketch, design pressure drop, atc.)
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Itsms 2, 3 and 5 ahould be consistent: actual amissions a potential (1-efficiency).
- 6. An 8 1/2" x 11" flow diagram which will, without revealing trade accrets, identify the individual operations and/or processes. Indicate where raw materials anter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of sirborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- B. An B $1/2^n \times 11^n$ plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

DER form 17-1.202(1) Effective November 30, 1982

·	•	
9.	The appropriate application fee in accordance payable to the Department of Environ	dance with Rule 17-4.05. The check should be mental Regulation.
10.	With an application for operation permit struction indicating that the source we permit.	, attach a Certificate of Completion of Conservation constructed as shown in the construction
	SECTION VI: BEST AVAIL	ABLE CONTROL TECHNOLOGY N/A
A.	Are standards of performance for new state applicable to the source?	tionary sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No	\$
•	Conteminant	Rate or Concentration
		<u> Santana da Arabana d</u>
		.i
в.	Has EPA declared the best available cont yes, attach copy)	rol technology for this class of sources (I
	[] Yes [] No	
	Contaminant	Rate or Concentration
•		
•		
	<u> </u>	
τ.	What emission levels do you propose as be	et available control technology?
	Conteminent	Rate or Concentration
	• • •	
	_	1
D.	Describs the existing control and treatme	nt technology (if eny).
	1. Control Device/System:	2. Operating Principles:
	3. Efficiency:*	4. Capital Costs:
+Exp	olain method of determining	

DER Form 17-1.202(1)

Effective November 30, 1982

N/A Useful Life: 6. Operating Costs: 7. 8. Maintenance Coat: Energy: Emissions: Conteminant Rate or Concentration 10. Stack Parameters Height: ft. Diameter: ft. ·F. Flow Rate: ACFH d. Temperatures Velocity: FPS Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). 1. Control Davice: b. Operating Principles: Efficiency: 1 Capital Cost: Useful Life: Operating Cost: Energy: 2. Maintenance Cost: g. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 2. Control Device: Operating Principles: Efficiency: 1 Capital Cost: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: ${f I}$ Explain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH design rate.

3.		
۵.	Control Device:	b. Operating Principles:
c.	Efficiency: 1	d. Capital Cost:
•.	Uneful Life:	f. Operating Cost:
g.	Energy:Ż	h. Waintenance Cost:
. 1 ,	Availability of construction material	s and process chemicals:
t.	Applicability to manufacturing proces	8881
k.	Ability to construct with control de within proposed levels:	vice, install in available epace, end opera
4.	··	
a .	Control Device:	b. Operating Principles:
. c.	Efficiency: 1	d. Capital Costs:
е.	Useful Life:	f. Operating Cost:
g.	Energy: 2	h. Maintenance Cost:
i.	Availability of construction material	e and process chemicals:
j.	Applicability to manufacturing proces	808:
k.	Ability to construct with control dewithin proposed levels:	vice, install in available space, and opera
F. Des	scribe the control technology selected:	
1.	Control Device:	2. Efficiency: 1
3.	Capital Cost:	4. Useful Life:
5.	Operating Costs	6. Energy: ²
7.	Maintenance Cost:	B. Manufacturer:
9.	Other locations where employed on mim	ilar proceess:
a.	(1) Company:	
(2)) Hailing Address:	
(3)) City:	(4) State:
l Explai ZEnergy	in method of determining efficiency. y to be reported in units of electrical	power - KWH design rate.

Page 10 of 12

j. Applicability to manufacturing processes: ..

within proposed levels:

DER Form 17-1.202(1)

Effective November 30, 1982

N/A

k. Ability to construct with control device, install in available space, and operats

	(5) Environmental Manager:	N/A				
	(6) Telephone Na.s					
	(7) Emissions: 1					•
	Contaminant			Rate or	Concentrat	ion
		·				
	(8) Process Rate:1					
	b. (1) Company:					· ·
	(2) Mailing Address:					
	(3) City:		(4) Stat	•:		
	(5) Environmental Hanager:					
	(6) Telephone No.:					
	(7) Emissions:1					
	Contaminant	· .	•	Rate or	Concentrat	ion
	(8) Process Rate: 1		·			
	10. Reason for selection and	description	n of mystem	8:		
l Ap	plicant must provide this info milable, applicant must state t SECTION VII - P	he rascon(B) why.			ormation not
A.,	Company Monitored Data					
,	1no. sites	TSP	(_)_ so ² * _		Wind spd/dir
	Period of Monitoring			to	/ /	
	Other data recorded		•			
	Attach all data or statistical			· -		
* Sp	ecify bubbler (B) or continuous	(c).				_
DER	Form 17-1.202(1)					

Page 11 of 12

Effective November 30, 1982

•	2. Insti	rumentation, Fig	ld and Laboratory		N/A				
	a. Was i	instrumentation	EPA referenced or	its e	quivalent	.? [] Yes	[] No		
	b. Was i	instrumentation	calibrated in acc	ordanc	e with De	partment p	rocedur	∍ s?	
	[] \	(es [] No []] Unknown						
8.	Meteorolo	gical Data Usec	for Air Quality N	odeli	ln g				
	1.	Year(a) of dat	e from / month day	/	to month	day yea	r		
	2. Surfa	ice data obtaine	d from (location)				- · · ·		
	3. Upper	air (mixing he	sight) data obtaine	d fro	om (locati	(an)		· 	
	4. Stabi	lity wind rose	(STAR) data obtain	ed fr	om (locat	ion)			
c.	Computer	Models Used		e .	,u				
	1.				Modified	? If yes,	attach	descripti	on.
	2		·			i? If yes,			
	3				Modified	l? If yes,	attach	descripti	on.
	4.			\	_ Modified	l? If yes,	attach	descripti	on.
	Attach co		al model runs who	1		-			
D.	Applicant	s Maximum Allow	able Emission Data	;	·				
	Pollutant		Emission Rate						
	TSP				¢	rems/80c			
	50 ²	deleter and				rama/aec	·		
Ε.	Emission	Data Used in Mo	deling	:					
	point sou	rce (on NEDS po	sources. Emission oint number), UTM	coord	inates, a	tack data,	-	•	

- F. Attach all other information supportive to the PSD review.
 - G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.
 - H. Attach acientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

SECTION V WET MIXING

1. Process Rate

5700 LBS/HR.

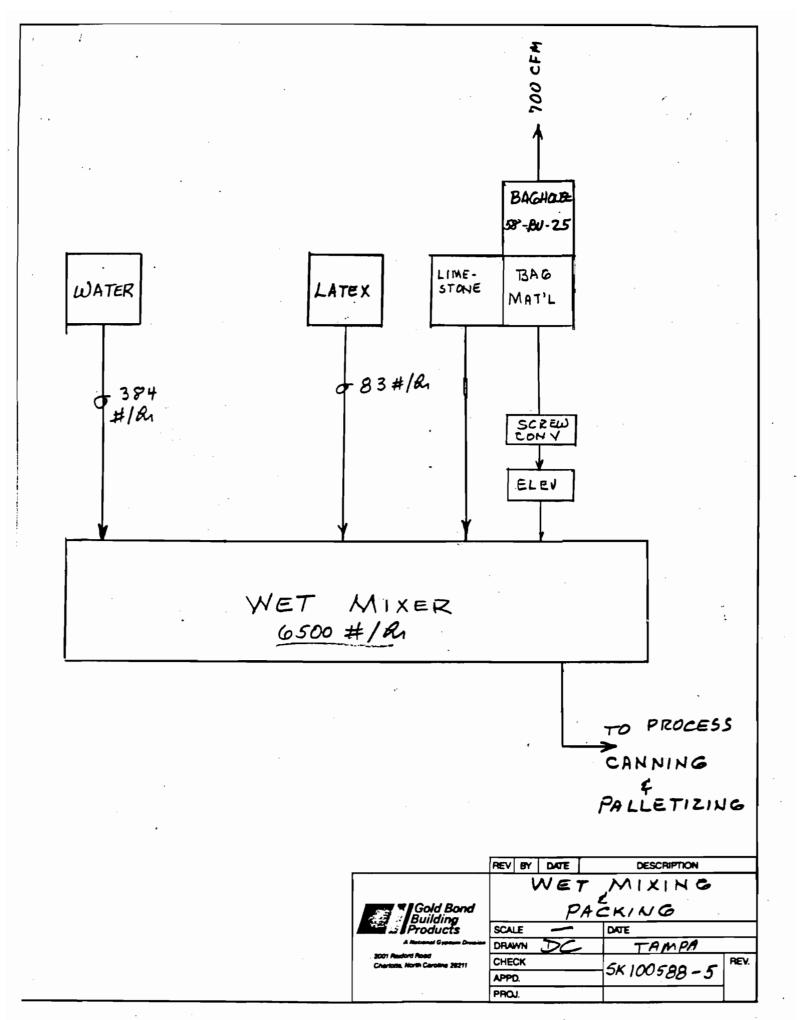
2. Controlled Emissions Estimate

3. Uncontrolled Potential Emissions Estimate

Estimated inlet grain loading = 15 GRS/DSCF 15 GRS/DSCF x 700 DSCFM x $60 \div 7000 = 90$ LBS/HR.

TONS/YR = 90#/HR x 8736 HRS $\div 2000 = 393$ TONS/YR

- 4. Baghouse Air/Cloth Ratio = 700/175 = 4.0:1
- 5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.
- 6. Flow chart attached.
- 7. Plot plan (plant location) attached.
- 8. Plot plan (equipment location) attached.
- 9. Application Fees: \$365 County Attached \$100 State



WR Series offers excellent filtration efficiency — for product recovery systems, large bin venting applications and general nuisance dust collection.

Advantages

The WR Series of welded pulse jet dust collectors offers:

• Easy Installation

Depending on size, unit may be shipped completely assembled. Or, welded sections are shop assembled for quick and easy field erection, low field labor costs.

Quick-mounting air headers
 In most cases, compressed air headers are shipped

pre-wired and pre-piped, ready to mount.

Low operating costs

Timer reduces energy costs

Adjustable timer maintains low pressure drop, with minimum compressed air consumption. Energy costs are reduced.

Differential pressure gauge

Supplied as a standard item to evaluate collector operation and optimize bag cleaning capacity.

Minimum maintenance

No internal moving parts. Interior maintenance is greatly reduced. Collector shut-down is minimized.

Quick bag replacement
 Bag and cage are designed to attach easily, permitting quick bag replacement.

Features

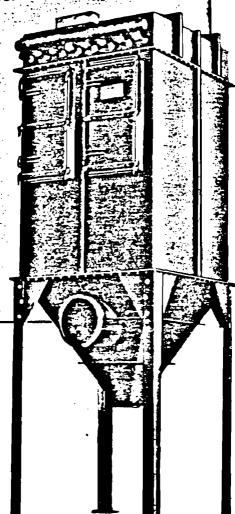
- Models available with bottom and top bag removal.
- Durable construction of welded 12 gauge hot rolled steel.
- Flanged air inlet, outlet and flanged dust discharge.
- 20" diameter top access port(s) to clean air plenum.
- Heavy gauge, cast aluminum venturis.
- Heavy duty, smooth wire cages.
- NEMA 4 (weathertight)
 electricals.
- Corner saddle supports through 96 bag size.
- Six inch girth channel for continuous support – on sizes larger than 96 bags.
- Weatherproof walk-in clean air plenum (applies to top bag

removal only).

- Differential pressure and air header gauges.
- Door sills have built-in 45° slopes.

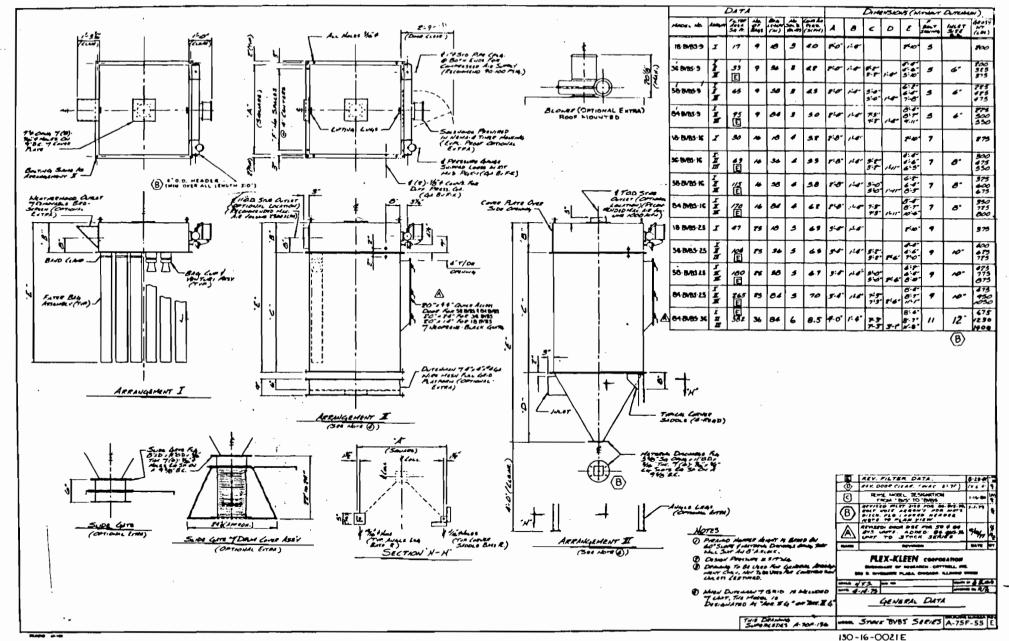
Options

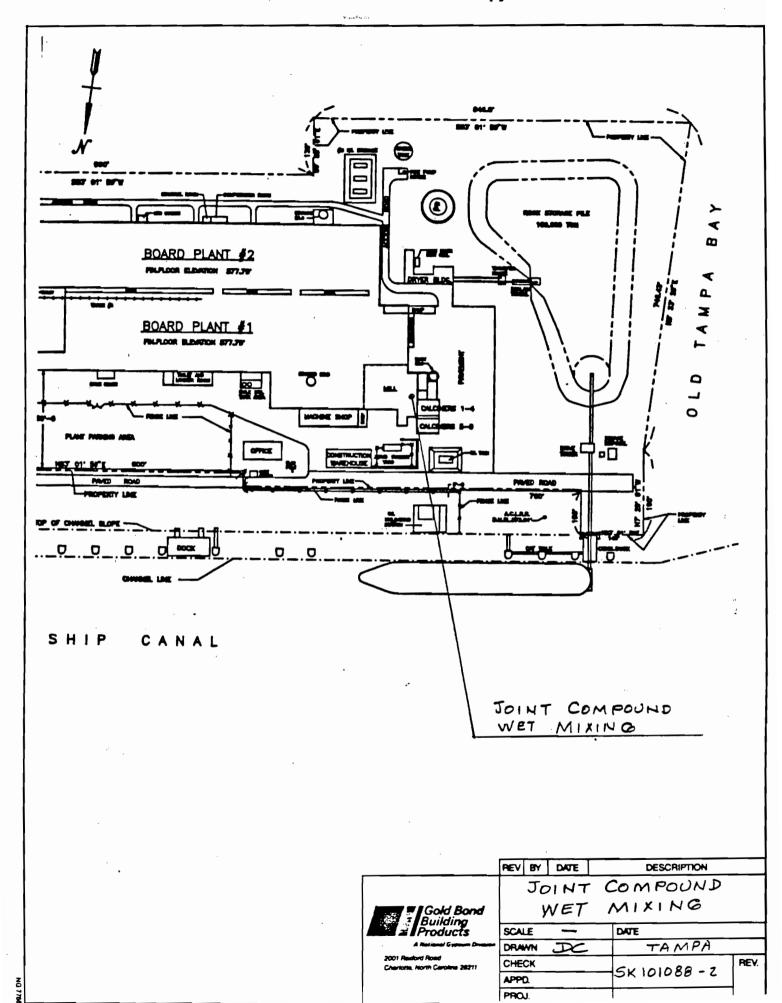
- Top bag removal with lift-off doors or walk-in plenum.
- Bag cages epoxy coated or 304SS.
- Wide range of interior coatings.
- Electrical components rated for hazardous service.
- Inlet baffle with target plate.
- Full internal service grid.
- Standard legs.
- Standard exterior access platform.

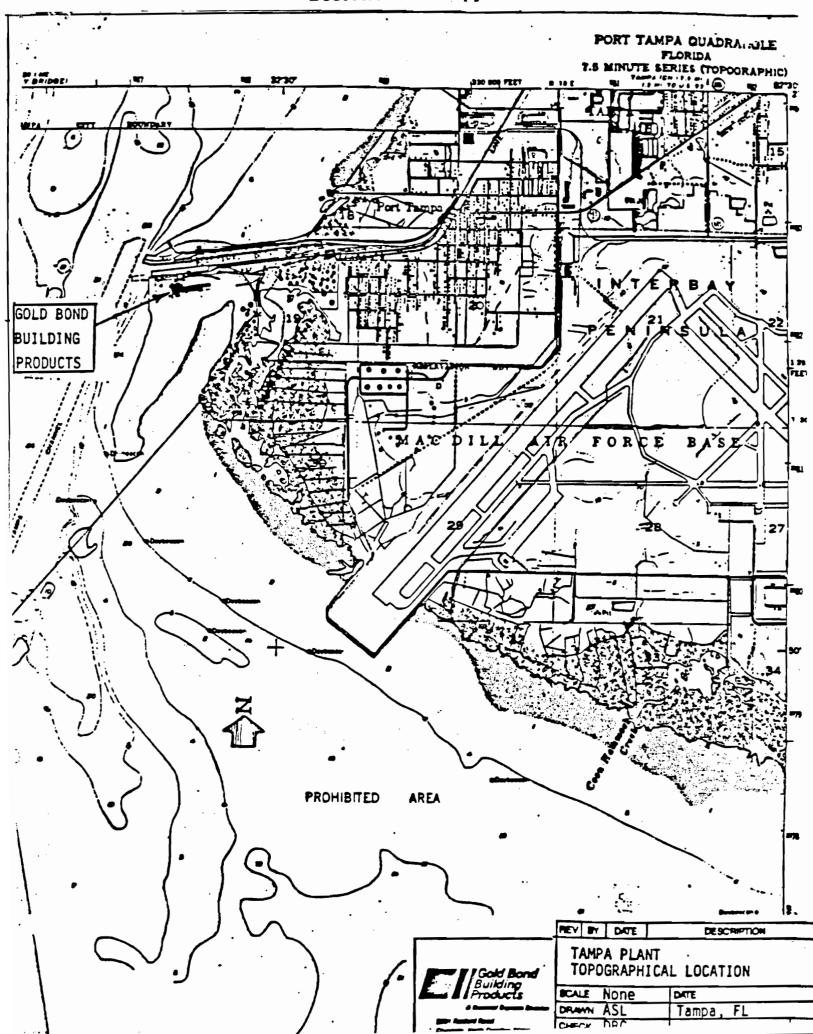


- Quick release bag clamp (bottom bag removal only).
- High efficiency filter bags, in a variety of materials.

Best Available Copy







STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY:301 NORTH TAMPA, FLORIDA 33610



RECEIVE

NOV 2 8 1988

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

WILLIAM K. HENNESSEY DISTRICT MANAGER

	CO MU	DER - BAQM
APPLICATION TO OPERATE/	CONSTRUCT AIR P	OLLUTION SOURCES
SOURCE TYPE: Air Pollution	[X] New ¹	[] Existing [§]
APPLICATION TYPE: [X] Construction []	Operation []	Modification
COMPANY NAME: Gold Bond Building Product	s, Division of N	lational county: Hillsborough
Gypsum Company Identify the specific emission point sour Kiln No. 4 with Venturi Scrubber; Peaking		Joint Compound
SOURCE LOCATION: Street 6110 Commerce		<u> </u>
UTM: East 17-347.3		
Latitude 27 • 52 •		Longi tude 8 02 • 33 · 'W
APPLICANT NAME AND TITLE: R. G. Moore, P	lant Manager	
APPLICANT ADDRESS: 6110 Commerce Street,	P. O. Box 19307	7, Tampa, FLA 33616
SECTION I: STATEMEN	TS BY APPLICANT	AND ENGINEER
A. APPLICANT		Cald Dand Duilding Duaduck
I am the undersigned owner or authori	ted representat	Gold Bond Building Product Division of National Gypsu
I certify that the statements made in	zeu representat	Company
permit are true, correct and complete	this applicati	on for a Construction
I agree to maintain and operate the	pollution con	strol source and pollution contr
facilities in such a manner as to c	omply with the	provision of Chapter 403, Florid
Statutes, and all the rules and regul also understand that a permit, if gr	ations of the d	epartment and revisions thereof.
and I will promptly notify the depart	ment upon sale	or legal transfer of the permitte
establishment.	•	,
*Attach letter of authorization	Signed:	
	R. G.	Moore, Plant Manager
	Name an	d Title (Please Type)
	Date:	Telephone No. (813)839-2111

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in th permit application. There is reasonable assurance, in my professional judgment, that

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

See Florida Administrative Code Rule 17-2.100(57) and (104)

pollution sources.	FAICH
gen en det et en et en en et en	Padamshi H. Chheda
•	Name (Please Type)
•	Gold Bond Building Products, Division of Nation Gypsum Company
·	Company Name (Please Type)
	2001 Rexford Road, Charlotte, N. C. 28211 Mailing Address (Please Type)
rida Registration No. 28433	Date: 16/10/87 Telephone No. (704)365-7238
SECTION	II: GENERAL PROJECT INFORMATION
and expected improvements in	ent of the project. Refer to pollution control equipment, a source performance as a result of installation. State sult in full compliance. Attach additional sheet if
This is the primary dust c	collector for the Dry Bag Material Handling and mixing. It
has 1280 square feet fabri	c and vents 5120 CFM and will result in full compliance.
has 1280 square feet fabri	c and vents 5120 CFM and will result in full compliance.
has 1280 square feet fabri	c and vents 5120 CFM and will result in full compliance.
Schedule of project covered	in this application (Construction Permit Application Only
Schedule of project covered	
Schedule of project covered Start of Construction Dece Costs of pollution control of for individual components/ur	in this application (Construction Permit Application Only
Schedule of project covered Start of Construction Dece Costs of pollution control of for individual components/ur Information on actual costs permit.)	in this application (Construction Permit Application Only ember 1, 1988 Completion of Construction June 1, 1989 June 1,
Schedule of project covered Start of Construction Dece Costs of pollution control of for individual components/ur Information on actual costs permit.)	in this application (Construction Permit Application Only amber 1, 1988 Completion of Construction June 1, 1989 by tem(s): (Note: Show breakdown of estimated costs only nits of the project serving pollution control purposes. shall be furnished with the application for operation
Schedule of project covered Start of Construction Dece Costs of pollution control of for individual components/ur Information on actual costs permit.)	in this application (Construction Permit Application Onleader 1, 1988 Completion of Construction June 1, 1989 Bystem(s): (Note: Show breakdown of estimated costs onleader of the project serving pollution control purposes. Shall be furnished with the application for operation
Schedule of project covered Start of Construction Dece Costs of pollution control of for individual components/ur Information on actual costs permit.)	in this application (Construction Permit Application Only amber 1, 1988 Completion of Construction June 1, 1989 of the project serving pollution control purposes. Shall be furnished with the application for operation
Schedule of project covered Start of Construction Dece Costs of pollution control of for individual components/un Information on actual costs permit.)	in this application (Construction Permit Application Only amber 1, 1988 Completion of Construction June 1, 1989 System(s): (Note: Show breakdown of estimated costs only nits of the project serving pollution control purposes. shall be furnished with the application for operation
Schedule of project covered Start of Construction Dece Costs of pollution control of for individual components/ur Information on actual costs permit.) Estimated cost of the inst	in this application (Construction Permit Application Only amber 1, 1988 Completion of Construction June 1, 1989 System(s): (Note: Show breakdown of estimated costs only nits of the project serving pollution control purposes. shall be furnished with the application for operation called pollution control equipment = \$60,000.00.
Schedule of project covered Start of Construction Dece Costs of pollution control of for individual components/ur Information on actual costs permit.) Estimated cost of the inst Indicate any previous DER papoint, including permit issue.	in this application (Construction Permit Application Unly ember 1, 1988 Completion of Construction June 1, 1989 Bystem(s): (Note: Show breakdown of estimated costs only nits of the project serving pollution control purposes. shall be furnished with the application for operation Called pollution control equipment = \$60,000.00.
Schedule of project covered Start of Construction Dece Costs of pollution control of for individual components/ur Information on actual costs permit.) Estimated cost of the inst	in this application (Construction Permit Application Only amber 1, 1988 Completion of Construction June 1, 1989 System(s): (Note: Show breakdown of estimated costs only nits of the project serving pollution control purposes. shall be furnished with the application for operation called pollution control equipment = \$60,000.00.

Requested permitted equipment operating time: hrs/day 24; days/wk_ if power plant, hrs/yr; if seasonal, describe:	/; wks/yr_
If this is a new source or major modification, answer the following q (Yes or No)	uestions.
1. Is this source in a non-attainment area for a particular pollutan	t? Yes
a. If yes, has "offset" been applied?	No ·
b. If yes, has "Lowest Achievable Emission Rate" been applied?	No
c. If yes, list non-attainment pollutants. Particulate	
 Does best available control technology (BACT) apply to this acure if yes, are Section VI. 	.e? No
 Does the State "Prevention of Significant Deterioristion" (PSD) requirement apply to this source? If yes, see Sections VI and VI 	I. <u>No</u>
4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	No
5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	No
Do "Reasonably Available Control Technology" (RACT) requirements appl to this source?	y Yes
a. If yes, for what pollutants? Particulate	

any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any enswer of "Yes". Attach any justification for any enswer of "No" that might be considered questionable.

b. If yes, in addition to the information required in this form,

DER Form 17-1.202(1)

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

See Attached List. Wet Mixing & Dry Mixing

٠.	Contam	inants	Utilization			
Description	Туре	% Wt	Rate - 1be/hr	Relate to Flow Diagram		
		· · · · · · · · · · · · · · · · · · ·	·			

В.	Process	Rate,	if	applicable:	(See	Section V,	Item	1))

,	Total	Process	Innut	Pate.	(lbs/br):	12,300
	Intal	Process	Innut	Rote	{ [bs/br):	14,50

			12,	2	Λ.	n
Product	Weight	(lbs/br);	14,	٠.	U	v

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of	Emission ¹		Allowed ² Emission Rate per	Allowable ³	Potential ⁴ Emission		Relate to Flow
Contaminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	1bs/wxHr	T/yr	Diagram
Particulates	1.3	5.68	N/A	N/A	878	3834	See Chart
, m 1							
				1			
							,
				2-1 -1			

¹ See Section V, Item 2.

Reference applicable emission etsndards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard.

⁴Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microna) (If applicable)	Basis for Efficiency (Section V Item 5)
Flex-Kleen #				
84-RA-128 KD	Particulate	99%+	Unknown	Estimate
•				
				.,
ш				

E.	Fuels	N/A
L .	LABIS	11/7

	Consum	ption*	
Type (Be Specific)	svg/hr	max./hr	Maximum Heat Input (MMBTU/hr)
*:			
,			
			-

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:	N/A		200			
Percent Sulfur:_			<u> </u>		Percent Ash:	
Density:	•	· 		lbs/gal	Typical Percent Nitrogen:	
Heat Capacity: _		•	• .	BTU/1b	**************************************	_BTU/gal
Other Fuel Conta	minants	(whic	h may ca	use air p	oollution):	

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average Maximum

G. Indicate liquid or solid wastes generated and method of disposal.

-	jht:		45		ft.	Stack Di	amete	r:18"0)
					1				Ambient
•					-			48.2	
					1	RATOR INFO		a	
Type of Waste						ige) (Path		(Liq.& Gas	Type VI (Solid By-prod
Actual 1b/hr Inciner- ated									
Uncon- trolled (lbs/hr)					i 1 1		ļ		
			<u> </u>						wks/yr
					Hod	IEI NO			
	ructed _								
		v	/olume (ft) ³	Hest R	elease /hr)	Туре	Fue1	BTU/hr	Temperature (°F)
ate Const		v					Fuel		
ate Const	hamber	V					Fue1		
Primary C	hamber Chamber	((ft) ³	(вти	/hr)	Туре		BTU/hr	
Primary C Secondary	hamber Chamber	((ft) ³	(BTU	/hr)	Туре		BTU/hr Stack T	(*F)
Primary C Secondary tack Heig	hamber Chamber ht: ate:	v (ft. S	tack Dia	/hr) mter: _	Type DS	CFH+	Stack T	(°F)
Primary C Secondary tack Heig as Flow R If 50 or ard cubic	hamber Chamber ht: ate: core ton foot dr	y (ft. S	tack Dia ACFM Ign capaced to 50%	hr) ater: ity, su excess yclone	DS bait the air.	CFM+ •miss	Stack T	emp

1	D. 1 D						
Jet-	-Pulse Baghou	se					
				. •			
			• '				
		.		,			
	al of any of	fluent othe	r than that	emitted f	rom the stack	(écinppei	water
sh, etc.):					rom the stack	(scrubber	water
ltimate dispos sh, etc.): All colle					rom the stack	(scrubber	water
sh, etc.):	ected materia				rom the stack	(scrubber	water

SECTION V: SUPPLEMENTAL REQUIREMENTS Attached

形 电影点

Please provide the following supplements where required for this application.

- 1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
- 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of air-borne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8 $1/2^n \times 11^n$ plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

DER Form 17-1.202(1) Effective November 30, 1982

	•	· 1
9.	The appropriate application fee in accordance made payable to the Department of Environ	dance with Rule 17-4.05. The check should be mental Regulation.
10.	. With an application for operation permit struction indicating that the source was permit.	, attach a Certificate of Completion of Con- as constructed as ahown in the construction
	SECTION VI: BEST AVAIL	ABLE CONTROL TECHNOLOGY N/A
۸.	Are standards of performance for new state applicable to the source?	tionary sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Contaminant	Rate or Concentration
	·	
. —		
в.	Has EPA declared the best available cont yes, attach copy)	rol technology for this class of sources (I
•	[] Yes [] No	
	Conteminant	Rate or Concentration
		·
	·	
	•	
ε.	What emission levels do you propose as be	st svailable control technology?
	Contaminant	Rate or Concentration
		<u> </u>
	· · · · · · · · · · · · · · · · · · ·	·
		<u> </u>
		<u> </u>
D.	Describe the existing control and treatme	nt technology (if any).
	1. Control Device/System:	2. Operating Principles:
	3. Efficiency:*	4. Capital Costs:
*Ex	plain method of determining	1.3

DER Form 17-1.202(1) Effective November 30, 1982

N/A Useful Life: Operating Cost*: 8. Maintenance Coat: 7. Energy: 9. Emissions: Contaminant Rate or Concentration Stack Parameters 10. Height: ft. ь. Diameter: ft. Flow Rate: ·F. ACFH d. Temperatures FPS Velocity: E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). 1. Control Device: Operating Principles: **b**. Efficiency: 1 Capital Cost: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Q. Availability of construction materials and process chemicals: Applicability to manufacturing processes: j. Ability to construct with control device, install in available space, and operate within proposed levels: 2. Operating Principles: Control Device: Efficiency: 1 Capital Cost: Operating Cost: Useful Life: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: Explain method of determining efficiency. ²Energy to be reported in units of electrical power - KWH design rate.

N/A Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: Operating Principles: Efficiency: 1 Capital Cost: d. Useful Life: f. Operating Cost: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 4. Control Device: ь. Operating Principles: Efficiency: 1 Capital Costs: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: g. i. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available apace, and operate within proposed levels: F. Describe the control technology selected: Efficiency:1 1. Control Device: 2. 3. Capital Cost: Useful Life: Operating Cost: Energy: Z Maintenance Cost: 8. Manufacturer: Other locations where employed on similar processes: a. (1) Company: (2) Mailing Address: (3) City: (4) State: IExplain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH design rats.

Page 10 of 12

DER Form 17-1.202(1)

Effective November 30, 1982

(5) Environmental Manager: N/F	A
(6) Telephone No.:	
(7) Emissions: 1	
Contaminant	Rate or Concentration
(8) Process Rate: 1	
b. (1) Company:	
(2) Mailing Address:	
(3) City:	(4) State:
(5) Environmental Manager:	
(6) Telephone No.:	1 1 1
(7) Emissions: 1	1
Conteminant	Rate or Concentration
<u></u>	<u> </u>
(8) Process Rate: 1.	
10. Reason for selection and descr	iption of systems:
lapplicant must provide this informati available, applicant must state the re	on when available. Should this information not beason(s) why.
SECTION VII - PREVEN	ITION OF SIGNIFICANT DETERIORATION N/A
A. Company Monitored Data	
	TSP Wind mpd/dir
mont	h day year month day year
Other data recorded	
Attach all data or statistical summ	aries to this application.
*Specify bubbler (B) or continuous (C).	
DER Form 17-1.202(1)	Page 11 of 12
, <u></u>	· ·

	a.	Was instrum	entation EP/	. reference	d or its e	quivalent?	[] Yes	[] N	•
	b.	Was instrum	entation cal	librated in	accordanc	e with Depa	rtment p	rocedur	88?
		[] Yes [] No [] Un	known					•
В.	Het	ectological	Data Used fo	or Air Qual	ity Modeli	ng			•
	1.	Year (m) of data f	rom	day year	to/	day yea	r	
	2.	Surface dat	a obtained f	rom (locat	ion)			•	·
	3.	Upper air (mixing heigh	t) data ob	tained fro	m (location)		
	4.	Stability w	ind rose (\$1	AR) data o	btained fr	om (locatio	on)		
c.	Com	puter Models	Used						•
	1.					Modified?	If yes,	attach	description.
	2.			·		Modified?	If yes,	attach	deacription.
	3.					Modified?	If yes,	attach	description.
	4.					Modifiéd?	If yes,	attach	description.
	cip	ach copies o le output tai	f all final. bles.	model runs	showing i		•		ons, and prin-
D.		licants Maxi	sum Allowabl	e Emission	Data				
	Pol	lutant		Emission					الشداء
		TSP	7 	·		gr	188/88C	•	
	:	50 ²	·.			gra	188/80C	** * *	
E.	Emi	ssion Deta Us	ed in Model	ing				-	
	poi		n NEDS point						description of the emissions,

N/A

F. Attach all other information supportive to the PSD review.

2. Instrumentation, Field and Laboratory

- G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.
- H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

SECTION V LIMESTONE SUPLY BIN

1. Process Rate

Loading Rate 20,000 LBS/HR.

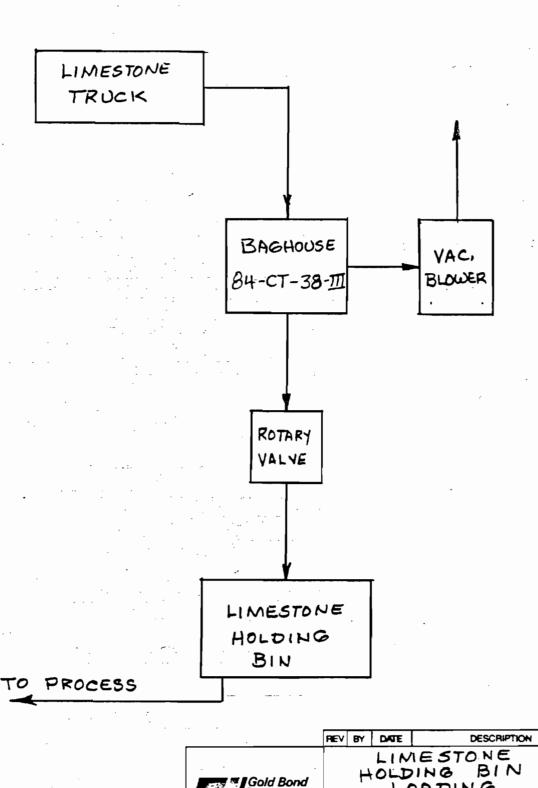
2. <u>Controlled Emissions Estimate</u>

.03 GRS/DSCF x 1520 DSCFM x 60 -- 7000 = .40 LBS/HR. TONS/YR = .40#/HR x 8736 HRS -- 2000 = 1.75 T/YR

3. Uncontrolled Potential Emissions Estimate

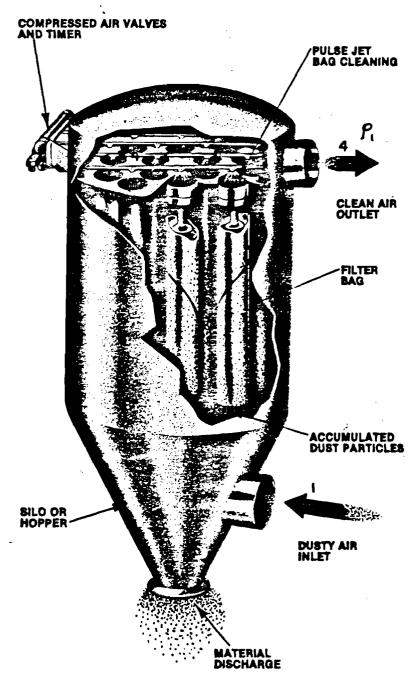
Estimated inlet grain loading = 30 GRS/DSCF 30 GRS/DSCF x 1520 DSCFM x $60 \div 7000 = 391$ LBS/HR. TONS/YR = 391#/HR x 8736 HRS \div 2000 = 1707 TONS/YR

- 4. Baghouse Air/Cloth Ratio = 1520/380 = 4.0:1
- 5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.
- 6. Flow chart attached.
- 7. Plot plan (plant location) attached.
- 8. Plot plan (equipment location) attached.
- 9. Application Fees: \$365 County Attached \$100 State



Gold Bond Building Products

	LOA	DIN 6	
SCALE	_	DATE	
DRAWN	DC	TAMPA	
CHECK		54 100500 7	REV.
APPD.		5K-100588-7	
PROJ.			



FEATURES.

- Inlet baffle to protect bags from abrasive dusts.
- Saddle supports located to match user's support steel.
- Quick access door(s) to dusty and clean sides of the collector on negative pressure units.
- Botted door(s) to dusty and clean sides of the collector for positive pressure units.
- Built-in compressed air pipe for timed bag cleaning.
- External compressed air reservoir.
 (Shipped complete, with pre-wired solenoid valves ready to mount.)
- Wide variety of bag materials to sult specific needs.
- Solid-state sequencing timer in standard dust-tight housing.
- Dusty air inlet and clean air outlet easily oriented to meet user requirements.
- Standard construction materials: mild steel or 304 stainless steel.

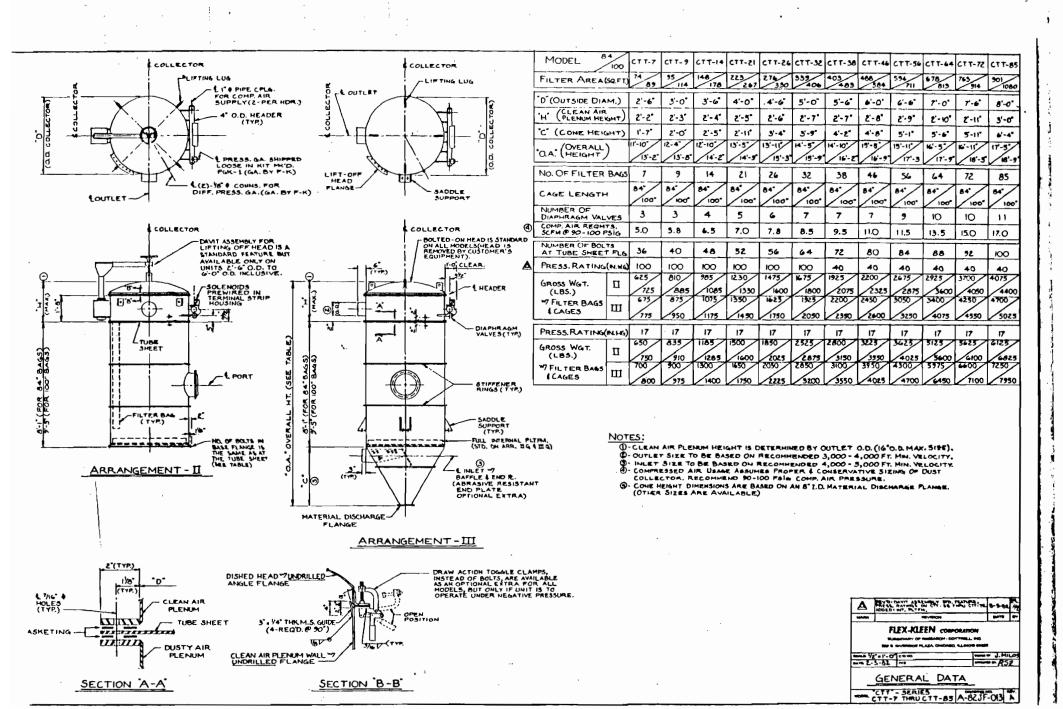
OPTIONS.

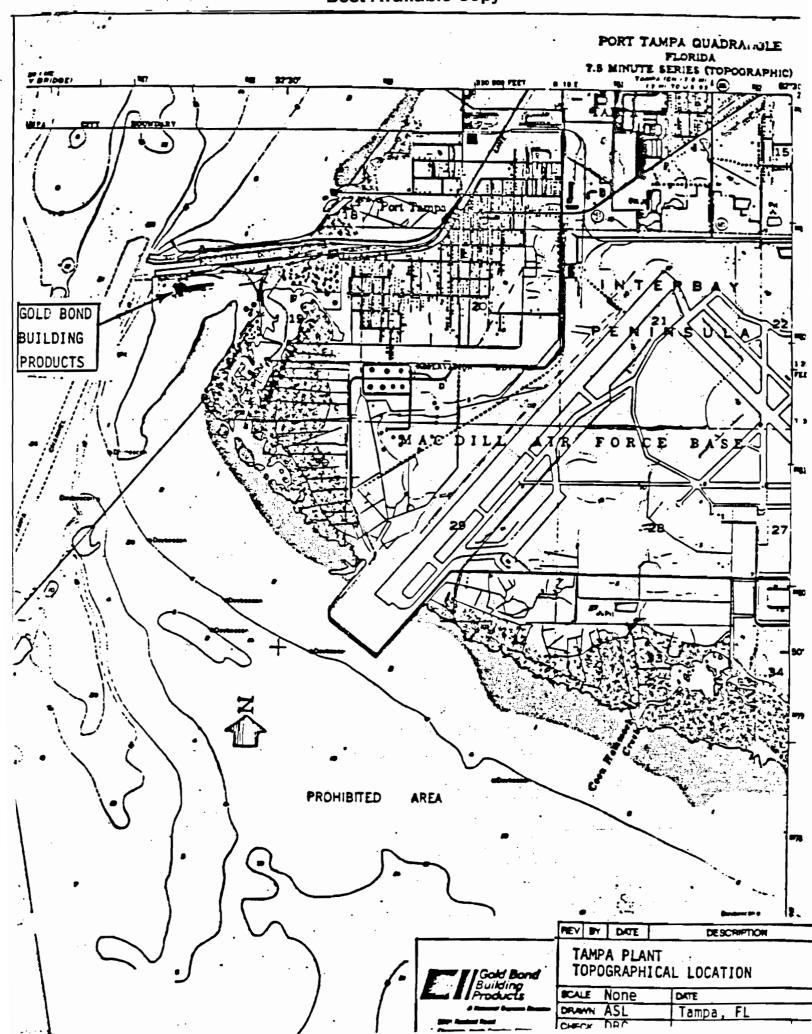
- Top bag removal with removable head or walk-in plenum.
- Stainless steel bag cages.
- · Quick release bag clamps.
- Pressure differential switch-signals a rise in pressure drop.
- Explosion proof electrical components.
- Support legs and access platforms.
- High temperature alarm systems.
- Housing fabricated in flanged cylindrical sections for positioning and final assembly in tight quarters.
- Flanged dust inlet and outlet.
- Aluminum or alloy construction throughout.

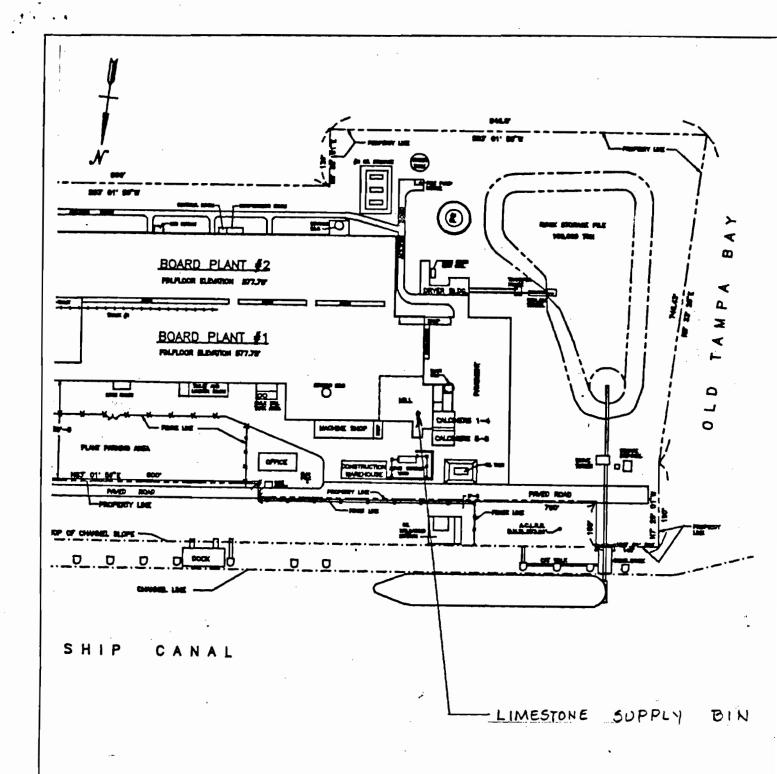
Additional options for non-stock units:

- 70° hoppers (standard is 60°).
- Hopper vibrator pads and vibrators.
- Tangential inlet with cyclone ring.
- Explosion relief vents/rupture discs.
- Static electricity grounding systems.
- Interior safety grids.
- Fan support platforms.
- Inlet baffle with end plate.
- · Abrasion-resistant wear plates.
- · Bag-free Interior walkway for servicing.
- FRP construction.
- Heat tracing."

Best Available Copy







	REV	BY	DATE	DESCRIPTION	
Gold Bond Building Products				MESTONE PPLY BIN	
2 Products	SCA	LE		DATE	
A Noticenal Gypsum Division	DRA	WN	DC	TAMPA	
2001 Restord Road Chartotte, North Caroline 28211	CHE	CK	_	- SK-100788-3 F	REV.
	APP	D		3K-100766-3	
	PRO	J.			

1 0.59 10/hr 0.39 ton/9,

2 0.09 10/hr 0.39 ton/9,

3 0.09 10/hr 0.39 ton/9,

4 0.18 10/hr 0.79 ton/9,

5 0.18 10/hr 0.79 ton/9,

6 1.32 10/hr 5.74 ton/9,

7 0.39 10/hr 1.71 ton/9,

replace
nixing system

w

linestone holding

replace linescone supply bin

linestone gapply bin transport system

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Reverse)

	(OCC TIEVETSE)	
☆ U.S.G.P.O. 1985-480-794	Sent to Mr. R. G. Moore,	
1985-4	Street and No. B1c P.O. Box 19307	lg. Products
0.0	P.O. State and ZIP Code Tampa, FL 33616	
U.S.G	Postage	S
. #	Čertified Fee	-
	Special Delivery Fee	
	Restricted Delivery Fee	
	Return Receipt showing to whom and Date Delivered	
198	Return Receipt showing to whom. Date, and Address of Delivery	
Jun,	TOTAL Postage and Fees	S
PS Form 3800, June 1985	Postmark or Date 1-15-88	
Form	Permit: AC 29-15621 AC 29-25622	
S	113 27 23022	,

SENDER: Complete ite 3 and 4. Put your address in the "Re card from being returned to to and the date of delivery. For fees and check box(es) 1. Show to whom delivery. Mr. R. G. Moore Plant Manager Gold Bond Buf.1.0 P. O. Box 1930 Tampa, FL 33518 Signature - Address Signature - Address Tampa of Delivery Tampa of Delivery	SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.	Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check hoxfee for additional service(s) requirested.	Show to whom delivered, date, and addressee's address. 2. [Extra charge] (Extra charge)	o: 4. Article Number	Mr. R. G. Moore P 274 007 518	Type of Service:	1.ding Products Registered	P. O. Box 19307	Tampa, FL 33516	or agent and DATE DELIVERED.	8. Ado	ANCHO C	TA. VI	200	Company of the second
---	--	--	--	----------------------	-------------------------------	------------------	----------------------------	-----------------	-----------------	------------------------------	--------	---------	--------	-----	-----------------------



Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

November 15, 1988

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. R. G. Moore Plant Manager Gold Bond Building Products P. O. Box 19307 Tampa, Florida 33616

Dear Mr. Moore:

RE: Permit Applications AC 29-156217 through -156221 and AC 29-156223 through -156224 for the Joint Compound Polystyrene Storage, Joint Compound Limestone Silo, Joint Compound Polystyrene Feed Hopper, Joint Compound Dry Mixing, Joint Compound Wet Mixer, Joint Compound Main Dust Collector, and Joint Compound Limestone Supply Bin, Respectively

The Department received your applications for seven permits to construct the sources needed to install a joint compound process at Gold Bond's Port Tampa Facility on October 17, 1988.

We have reviewed these applications and find them to be incomplete. In order to have the reasonable assurance required by Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, we will need the following additional information to process your applications. Processing of your applications will resume upon receipt of this additional information. Please be sure to state and justify all assumptions. We will also need copies of the documentation that was used to support these assumptions.

l. We recognize that you would like certain information about your process and/or materials to remain confidential. But, we are not clear from your submissions what that information is. Please specifically revise each of the seven applications to exclude the information that is to be considered confidential and submit the confidential information under separate cover. All information that is submitted under the cover of a permit application must accompany the public notice.

Mr. R. G. Moore November 15, 1988 Page Two

- 2. Will any odorous compounds be emitted from the proposed process? Please identify and provide complete information about each. Also identify the source of each.
- 3. Please provide the true vapor pressure of each of the organic compounds and mixtures used in the proposed process. Also identify and provide the same information about each of the mixtures that are expected to occur in the proposed process. Quantify all emissions of volatile organic compounds (maximum lbs./hr. and tons/yr.) that are expected to occur. Provide complete information about the equipment you propose to use for the control of volatile organic compound emissions.
- 4. Provide sizes, capacities, construction dates, and other relevant information about the tanks or vessels that will be used for the storage of organic liquids used in the process. If the vessels are already in existence, please describe the original use of the vessel and identify the material stored in it.
- 5. Describe how organic liquids are to be pumped and handled. Please provide all particulars.
- 6. The air-to-cloth ratios on each of the applications is not consistent with the information on each of the specification sheets that you provided. Please explain and/or correct these discrepancies. Identify the number of compartments that each of the proposed baghouses will have. Also provide a copy of the manufacturer's guarantee for each of the baghouses that you propose to use.
- 7. With specific regard to permit application AC 29-156219 for the Joint Compound Polystyrene Feed Hopper, it is not clear whether you propose a volumetric gas flow rate of 360 or 700 DSCFM. Also, it is not clear whether you propose to select baghouse model 58-BU-9-II or 58-BU-25-II. Please clarify.
- 8. We are not clear as to the purpose of the permit application for the Joint Compound Wet Mixer which you submitted on October 27, 1988. In addition, the application appears to be mislabeled. The application more closely resembles permit application AC 29-156223 for the Joint Compound Main Dust Collector. Please explain what source the October 27, 1988 permit application is for and the purpose of this application. If the purpose is to indicate which information you want to remain confidential, then please submit specifically labeled pages for each of the affected applications.
- 9. Permit application AC 29-156218 for the Joint Compound Limestone Silo includes the statement that a federal new source performance in 40 CFR 60 is applicable to the source. Please

Mr. R. G. Moore November 15, 1988 Page Three

cite the specific standard in 40 CFR 60 that is applicable to this source.

- 10. Based on your applications, the process that you are install is not clear. proposing to For example, provided rather specific information concerning raw materials inputs which do not compare with the process flow diagrams. of the process flow diagrams make it appear as though the proposed project will produce more than one product. example, we note unexplained inputs of bag materials and outputs of both bagged and canned products. Please identify, describe, and explain each of the manufacturing process(es) that you are proposing to install and how they interrelate. Also, the quantities and materials on process flow diagrams and other listings need to match. Please correct and/or clarify.
- ll. We note that some of the dry materials handled include certain nonmetallic minerals. Please explain whether any of these materials will be ground, and/or calcined at your site. Explain how each of the dry materials will be received, unloaded, stored, conveyed, and introduced into the process at your site. Please include the quantities of materials and resulting emissions (maximum lbs./hr. and tons/yr.).
- 12. Please explain how the Joint Compound Limestone Supply Bin, permit application AC 29-156224, operates at a continuous rate of 10 tons/hr. while the Joint Compound Limestone Silo, permit application AC 29-156218, only operates 3640 hours/yr. at 10 tons/hr. Also, please note that the maximum annual emissions from equipment that you propose to operate continuously should be calculated on the basis of 8760 hours/yr. Corrections should be made where necessary.
- 13. It is not clear from the applications whether you plan to vent all emissions of particulate matter expected to result from the proposed installation through the proposed baghouses. Also, it is not clear as to whether you have quantified emissions of all pollutants listed in Table 500-2 of F.A.C. Chapter 17-2 that each of the proposed sources is expected to emit. Please explain and quantify emissions of all pollutants listed in Table 500-2 of F.A.C. Chapter 17-2 in maximum lbs./hr. and tons/yr.
- 14. Please describe how the installation of the proposed joint compound process will affect the operations of the permitted sources at your existing facility. Provide a quantitative comparison of the actual maximum hourly and annual operation rates of the affected sources. Also provide a quantitative comparison of the actual maximum hourly and annual emissions of each pollutant listed in Table 500-2 of F.A.C. Chapter 17-2 for

Mr. R. G. Moore November 15, 1988 Page Four

each affected source. The hourly emissions are to be expressed in lbs./hr. and tons/yr.

While you may feel that the source-by-source information is complete, it is difficult for us to understand how this information fits together and how the sources relate to one another. The preceding questions are an example of this situation. We therefore feel a meeting would be beneficial to both parties prior to preparation and submission of the information requested in this letter. Please call Mr. Bill Thomas at (904) 488-1344 to arrange a meeting. If you have any questions, please call Mr. Thomas or write to me at the above address.

Sincerely,

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality Management

CF/mdh

cc: W. C. Thomas

A. Wells

P. H. Chheda, P.E.

D. B. Collins

BEST AVAILABLE COPY

(5) Environmental Manager: N/A (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: b. (1) Company: (2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when available. Should this information not allable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1		
Conteminant Conteminant Conteminant Rate or Concentration (8) Process Rate; 1 b. (1) Company: (2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emigrions; 1 Conteminant Rate or Concentration (8) Process Rate; 1 10. Reason for selection and description of systems: plicant must provide this information when evailable. Should this information not silable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1no. sites TSP () SO2* Wind spd/di Period of Monitoring / to month day year Sther data recorded	(5) Environmental Manager: N/A	
Conteminent Rate or Concentration (8) Process Rate: b. (1) Company: (2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when available. Should this information not silable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Nonitored Data 1	(6) Telephone No.:	·
(8) Process Rate: b. (1) Company: (2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Entations: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when available. Should this information notaliable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1	(7) Emissions: ¹	
b. (1) Company: (2) Mailing Address: (3) City: (A) State: (5) Environmental Manager: (6) Telephone No.: (7) Emigricons: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when swallable. Should this information notaliable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1no. sites TSP () SO ² e Wind spd/di Period of Monitoring / / / / / / / / / / / / / / /	Conteminant	Rate or Concentration
b. (1) Company: (2) Mailing Address: (3) City: (A) State: (5) Environmental Manager: (6) Telephone No.: (7) Emigricons: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when swallable. Should this information notaliable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1no. sites TSP () SO ² e Wind spd/di Period of Monitoring / / / / / / / / / / / / / / /		
b. (1) Company: (2) Mailing Address: (3) City: (A) State: (5) Environmental Manager: (6) Telephone No.: (7) Emigricons: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when swallable. Should this information notaliable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1no. sites TSP () SO ² e Wind spd/di Period of Monitoring / / / / / / / / / / / / / / /		
b. (1) Company: (2) Mailing Address: (3) City: (A) State: (5) Environmental Manager: (6) Telephone No.: (7) Emigricons: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when swallable. Should this information notaliable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1no. sites TSP () SO ² e Wind spd/di Period of Monitoring / / / / / / / / / / / / / / /	· · · · · · · · · · · · · · · · · · ·	
(2) Mailing Address: (3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when available. Should this information not silable, applicant must etate the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1no. sitesTSP() So2* Wind spd/di Period of Monitoring/ to Bonth day year	(8) Process Rate: 1	
(3) City: (4) State: (5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when available. Should this information not allable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1	b. (1) Company:	
(5) Environmental Manager: (6) Telephone No.: (7) Emissions: Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when available. Should this information notaliable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1no. sitesTSP	(2) Mailing Address:	
(6) Telephone No.: (7) Emissions:1 Contaminant Rate or Concentration (8) Process Rate:1 10. Reason for selection and description of systems: plicant must provide this information when available. Should this information not silable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1no. sites TSP Wind apd/di Period of Monitoring / / _ to Wind spd/di Sther data recorded	(3) City:	(4) State:
Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when available. Should this information not allable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1	(5) Environmental Manager:	
Contaminant Rate or Concentration (8) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when available. Should this information not allable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1	(6) Telephone No.:	
Contaminant (B) Process Rate: 10. Reason for selection and description of systems: plicant must provide this information when available. Should this information not allable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1		
10. Reason for aelection and description of systems: plicant must provide this information when available. Should this information not allable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1		Rate or Concentration
10. Reason for aelection and description of systems: plicant must provide this information when available. Should this information not allable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1		
10. Reason for aelection and description of systems: plicant must provide this information when available. Should this information not ailable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1		· · · · · · · · · · · · · · · · · · ·
10. Reason for aelection and description of systems: plicant must provide this information when available. Should this information not allable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1		· · · · · · · · · · · · · · · · · · ·
plicant must provide this information when available. Should this information not silable, applicant must state the reason(s) why. SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1	(8) Process Rate: 1	
SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A Company Monitored Data 1no. sitesTSP () SO ²⁺ Wind spd/di Period of Monitoring / to	10. Reason for aelection and description	n of systems:
1no. sitesTSP() S0 ² *Wind spd/di Period of Monitoring/ / to// month day year month day year Other data recorded	silable, applicant must state the reason(B) why.
Period of Monitoring / / to // month day year month day year Dther data recorded / /		() 50 ² * Wind and/di
Sther data recorded		
	month (day year month day year
	Sther data recorded	···

Page 11 of 12

DER Form 17-1.202(1)

Effective November 30, 1982

	2. Instrumentation, Field and Laboratory	N/A
	a. Was instrumentation EPA referenced or	its equivalent? [] Yea [] No
	b. Was instrumentation calibrated in acco	ordance with Department procedures?
	[] Yes [] No [] Unknown	
В.	Meteorological Data Used for Air Quality M	lodeling
	1. Year(a) of data from / month day	year month day year
	2. Surface data obtained from (location)_	
	3. Upper air (mixing height) data obtaine	d from (location)
	4. Stability wind rose (STAR) data obtain	ed from (location)
	Computer Models Used	
	1.	Modified? If yes, attach description.
	2.	Modified? If yes, attach description.
		Modified? If yes, attach description.
	4.	Modified? If yes, attach description.
•	Attach copies of all final model runs show ciple output tables.	ring input data, receptor locations, and prin
٠.	Applicants Maximum Allowable Emission Data	i.
	Pollutant Emission Rate	
	TSP	grams/sec
	502	grams/sec
	Emission Data Used in Modeling	

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

- F. Attach all other information supportive to the PSD review.
- Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). assessment of the environmental impact of the sources.
- Attach scientific, engineering, and technical material, reports; publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

SECTION V JOINT COMPOUND MAIN DUST COLLECTOR

1. Process Rate

2. <u>Controlled Emissions Estimate</u>

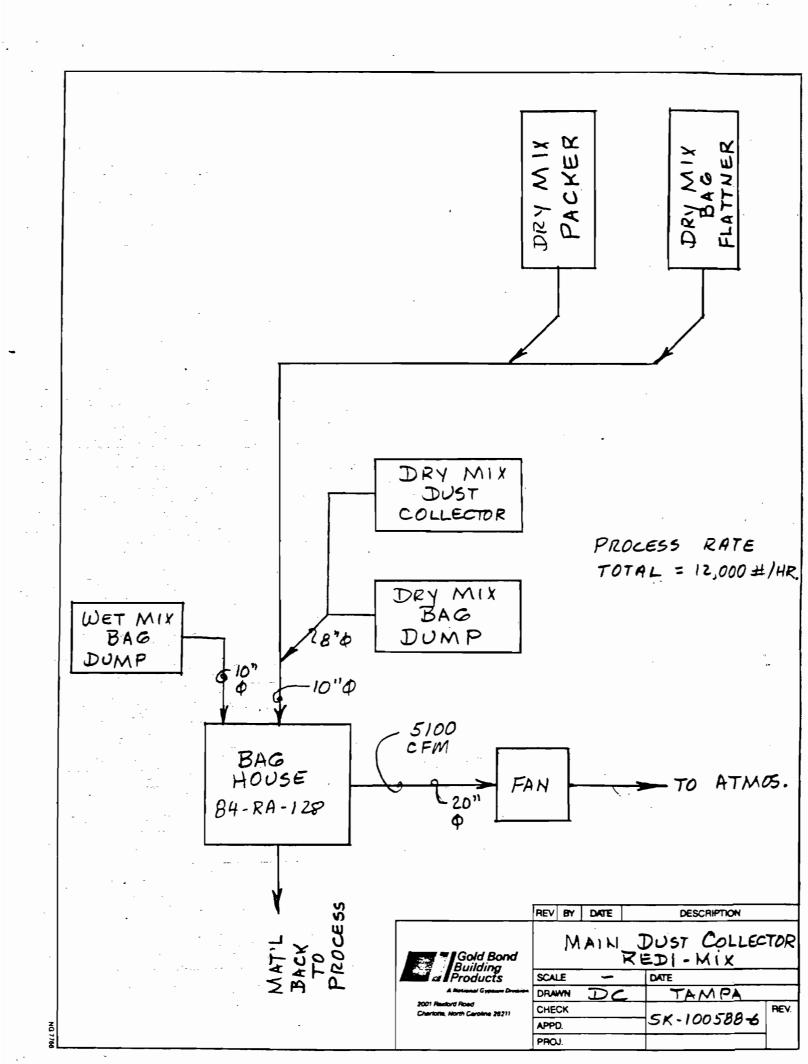
.03 GRS/DSCF x 5120 DSCFM x 60 ÷ 7000 = 1.3 LBS/HR. TONS/YR = 1.3#/HR x 8736 HRS ÷ 2000 = 5.68 T/YR

3. <u>Uncontrolled Potential Emissions Estimate</u>

Estimated inlet grain loading = 20 GRS/DSCF 20 GRS/DSCF x 5120 DSCFM x $60 \div 7000 = 878 \text{ LBS/HR}$.

TONS/YR = 878#/HR x 8736 HRS \div 2000 = 3834 TONS/YR

- 4. Baghouse Air/Cloth Ratio = 5120/1280 = 4.0:1
- 5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.
- 6. Flow chart attached.
- 7. Plot plan (plant location) attached.
- 8. Plot plan (equipment location) attached.
- 9. Application Fees: \$365 County Attached \$100 State



WR Series offers excellent filtration efficiency — for product recovery systems, large bin venting applications and general nuisance dust collection.

Advantages

The WR Series of welded pulse jet dust collectors offers:

- Easy installation
 - Depending on size, unit may be shipped completely assembled. Or, welded sections are shop assembled for quick and easy field erection, low field labor costs.
- Quick-mounting air headers
 In most cases, compressed air headers are shipped pre-wired and pre-piped, ready to mount.
- Low operating costs
- Timer reduces energy costs

Adjustable timer maintains low pressure drop, with minimum compressed air consumption. Energy costs are reduced.

- Differential pressure gauge
 Supplied as a standard item to evaluate collector operation and optimize bag cleaning capacity.
- Minimum maintenance
 No internal moving parts. Interior maintenance is greatly reduced. Collector shut-down is minimized.
- Quick bag replacement
 Bag and cage are designed to attach easily, permitting quick bag replacement.

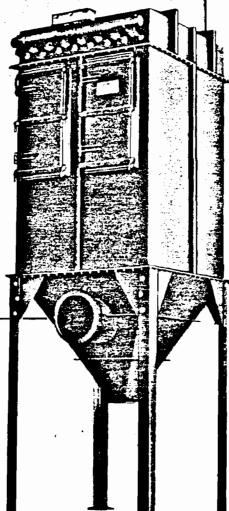
Features

- Models available with bottom and top bag removal.
- Durable construction of welded 12 gauge hot rolled steel.
- Flanged air inlet, outlet and flanged dust discharge.
- 20" diameter top access port(s) to clean air plenum.
- Heavy gauge, cast aluminum venturis.
- Heavy duty, smooth wire cages.
- NEMA 4 (weathertight) electricals.
- Corner saddle supports through 96 bag size.
- Six inch girth channel for continuous support – on sizes larger than 96 bags.
- Weatherproof walk-in clean air plenum (applies to top bag

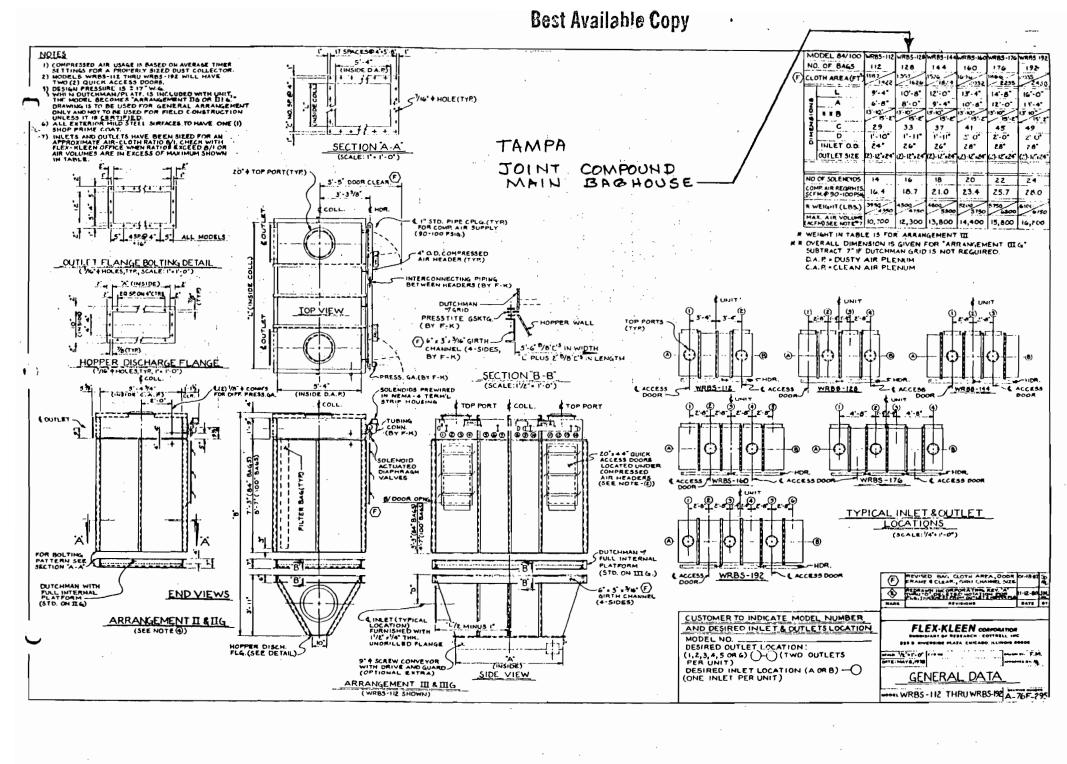
- removal only).
- Differential pressure and air header gauges.
- Door sills have built-in 45° slopes.

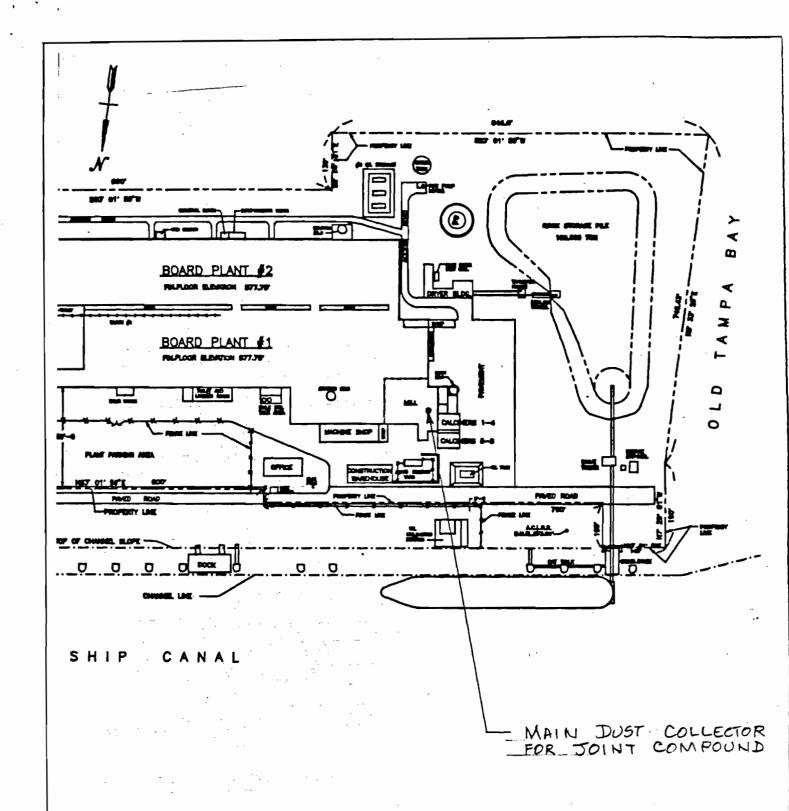
Options

- Top bag removal with lift-off doors or walk-in plenum.
- Bag cages epoxy coated or 304SS.
- · Wide range of interior coatings.
- Electrical components rated for hazardous service.
- Inlet baffle with target plate.
- Full internal service grid.
- Standard legs.
- Standard exterior access platform.

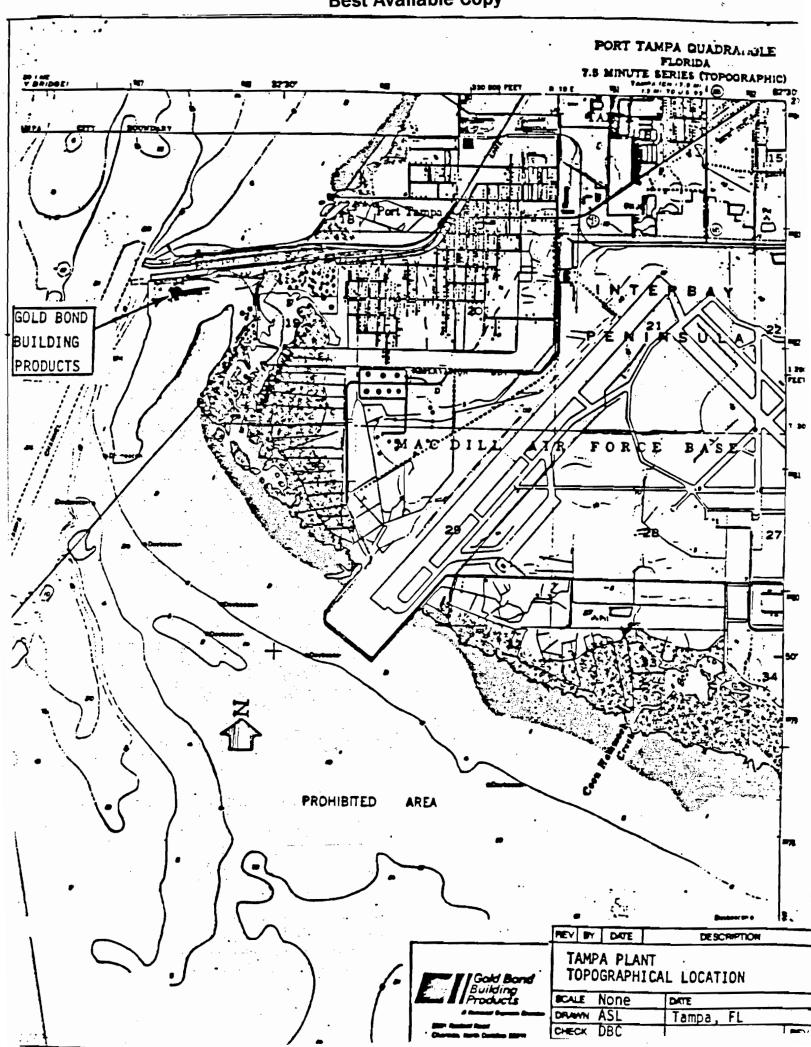


- Quick release bag clamp (bottom bag removal only).
- High efficiency filter bags, in a variety of materials.





	REV	BY	DATE		DESCRIPTION	
Gold Bond			MAIR	1	COMPOUND BAGHOUSE	>
Products	SCAI	E			DATE	
A Hatianal Gypsom Dropins	DRA	M	DC	-	TAMPA	
2001 Restord Road Charlotte North Carolina 26211	CHE	CK			SK-100788-2	REV.
	APP	מ			3K-100100-2	
	PRO	.1			T	ı



DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



RECEIVED GOVERNOR

RECEIVED BOB GRAHAM
GOVERNOR

SECRETARY

NOV 2 8 1988 WILLIAM K. HENNESSEY DISTRICT MANAGER

DER - BAQM

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Air Pollution	[X] Newl [] Existing!
APPLICATION TYPE: [X] Construction []	· · · · · · · · · · · · · · · · · · ·
COMPANY NAME: Gold Bond Building Product	s, Division of National county: Hillsborough
	rce(s) addressed in this application (i.e. Lime Joint Compound g Unit No. 2, Gas Fired) Limestone Supply Bin
SOURCE LOCATION: Street 6110 Commerce S	treet City Port Tampa
	North 3.082.7
Latitude 27 • 52 •	Longitude 02 • 33 · W
APPLICANT NAME AND TITLE: R. G. Moore,	Plant Manager
APPLICANT ADDRESS: 6110 Commerce Street,	P. O. Box 19307, Tampa, FLA 33616
SECTION I: STATEME	NTS BY APPLICANT AND ENGINEER
A. APPLICANT	Gold Bond Building Product
I am the undersigned owner or author	ized representative* of Division of National Gypsu
permit are true, correct and completed in agree to maintain and operate the facilities in such a manner as to statutes, and all the rules and regulated understand that a permit, if great also understand that a permit.	Company this application for a Construction to the best of my knowledge and belief. Further e pollution control source and pollution control comply with the provision of Chapter 403, Flori lations of the department and revisions thereof. canted by the department, will be non-transferable tment upon sale or legal transfer of the permitt
*Attach letter of authorization	Signed:
	R. G. Moore, Plant Manager
	Name and Title (Please Type)
	Date: Telephone No. (813)839-2111
B. PROFESSIONAL ENGINEER REGISTERED IN	FLORIDA (where required by Chapter 471, F.S.)
This is to certify that the engineer been designed/examined by me and f	ing features of this pollution control project ha ound to be in conformity with modern engineeri nt and disposal of pollutants characterized in t

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 19

permit application. There is reasonable assurance, in my professional judgment, th

Padamshi H. Chheda Name (Plasse Type) Gold Bond Building Products, Division of National Gypsum Company Company Name (Plasse Type) 2001 Rexford Road, Charlotte, N. C. 28211 Mailing Address (Plasse Type) Lorida Registration No. 28433 Date: 10 10 84 Telephone No. (704)365-7238 SECTION II: GENERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional wheet if nacessary. This is a limestone supply bin that will be loaded from trucks or from the Limeston Silo. Pneumatic loading at 1520 CFM with a 380 square foot Baghouse will result in full compliance. Schedule of project covered in this application (Construction Permit Application On Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Coats of pollution control system(s): (Note: Show breakdown of estimated costs on for individual components/units of the project serving pollution control purposes. Inforastion on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuance and expiration dates. None		pollution sources.	PAOID.
Schedule of project covered in this application (Construction Permit Application Onling Compliance. Schedule of project covered in this application of Construction Permit Application Onling Construction on actual costs of installed pollution control equipment = \$20,000.00.			Signed TOWN
Gold Bond Building Products, Division of National Gypsum Company Company Name (Please Type) 2001 Rexford Road, Charlotte, N. C. 28211 Mailing Address (Please Type) SECTION II: GENERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source performance as a result of inetalization. State whether the project will result in full compliance. Attach additional wheet if necessary. This is a limestone supply bin that will be loaded from trucks or from the Limeston Silo. Pneumatic loading at 1520 CFM with a 380 square foot Baghouse will result in full compliance. Schedule of project covered in this application (Construction Persit Application On: Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Costs of pollution control eyetem(s): (Note: Show breakdown of estimated costs on for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation persit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER persits, orders and notices associated with the assission point, including persit issuence and expiration dates. None			
Toppeny Name (Please Type) 2001 Rexford Road, Charlotte, N. C. 28211 Mailing Address (Please Type) orids Registration No. 28433 Date: 10 10 82 Telephone No. (704)365-7238 SECTION II: CENERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source performance as a result of inetallation. State whether the project will result in full compliance. Attach additional sheet if necessary. This is a limestone supply bin that will be loaded from trucks or from the Limeston Silo. Pneumatic loading at 1520 CFM with a 380 square foot Baghouse will result in full compliance. Schedule of project covered in this application (Construction Permit Application On: Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Costs of pollution control system(e): (Note: Show breakdown of estimated costs on for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuance and expiration dates. None			Gold Bond Building Products, Division of National
SECTION II: CEMERAL PROJECT INFORMATION Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional wheet if necessary. This is a limestone supply bin that will be loaded from trucks or from the Limeston Silo. Pneumatic loading at 1520 CFM with a 380 square foot Baghouse will result in full compliance. Schedule of project covered in this application (Construction Permit Application On: Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Costs of pollution control system(s): (Note: Show breakdown of estimated costs on: for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuence and expiration dates. None		•	Company Name (Please Type)
Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional wheel if necessary. This is a limestone supply bin that will be loaded from trucks or from the Limeston Silo. Pneumatic loading at 1520 CFM with a 380 square foot Baghouse will result in full compliance. Schedule of project covered in this application (Construction Permit Application On: Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Costs of pollution control system(s): (Note: Show breakdown of estimated costs on: for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuance and expiration dates. None			2001 Rexford Road, Charlotte, N. C. 28211
Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional wheet if necessary. This is a limestone supply bin that will be loaded from trucks or from the Limeston Silo. Pneumatic loading at 1520 CFM with a 380 square foot Baghouse will result in full compliance. Schedule of project covered in this application (Construction Permit Application On: Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Coats of pollution control eystem(a): (Note: Show breakdown of estimated costs on for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuence and expiration dates. None			
Describe the nature and extent of the project. Refer to pollution control equipment and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional wheet if necessary. This is a limestone supply bin that will be loaded from trucks or from the Limeston Silo. Pneumatic loading at 1520 CFM with a 380 square foot Baghouse will result in full compliance. Schedule of project covered in this application (Construction Permit Application On: Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Costs of pollution control eyetem(e): (Note: Show breakdown of estimated costs on for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuence and expiration dates. None) 1	rida Registration No. 28433	Dete: 10/10/82 Telephone No. (704)365-7238
and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional wheet if necessary. This is a limestone supply bin that will be loaded from trucks or from the Limeston Silo. Pneumatic loading at 1520 CFM with a 380 square foot Baghouse will result in full compliance. Schedule of project covered in this application (Construction Permit Application On: Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Costs of pollution control system(s): (Note: Show breakdown of estimated costs on for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuance and expiration dates. None		SECTION I	I: GENERAL PROJECT INFORMATION
Schedule of project covered in this application (Construction Permit Application On: Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Costs of pollution control eyestem(s): (Note: Show breakdown of estimated costs on: for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuence and expiration dates. None		and expected improvements in a whether the project will resul	ource performance as a result of installation. State
Schedule of project covered in this application (Construction Permit Application On: Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Costs of pollution control system(s): (Note: Show breakdown of estimated costs on: for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuance and expiration dates. None		This is a limestone supply b	in that will be loaded from trucks or from the Limestone
Schedule of project covered in this application (Construction Permit Application On: Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Costs of pollution control system(s): (Note: Show breakdown of estimated costs on: for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuence and expiration dates. None		Silo_ Preumatic loading at	1520 CFM with a 380 square foot Baghouse will result in
Schedule of project covered in this application (Construction Permit Application On: Start of Construction December 1, 1988 Completion of Construction June 1, 1989 Coats of pollution control eyetem(s): (Note: Show breakdown of estimated costs on: for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuence and expiration dates. None			
Costs of pollution control system(s): (Note: Show breakdown of estimated costs on for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuence and expiration dates. None			
Costs of pollution control eyetem(s): (Note: Show breakdown of estimated costs on for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) Estimated cost of installed pollution control equipment = \$20,000.00. Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuence and expiration dates. None			
Indicate any previous DER permits, orders and notices associated with the amission point, including permit issuance and expiration dates. None		· ·	
None		Start of Construction <u>Decembe</u> Costs of pollution control eye for individual components/unit Information on actual costs sh	r 1, 1988 Completion of Construction June 1, 1989 tem(s): (Note: Show breakdown of estimated costs only s of the project serving pollution control purposes.
None		Start of Construction <u>Decembe</u> Costs of pollution control eye for individual components/unit Information on actual costs sh permit.)	r 1, 1988 Completion of Construction June 1, 1989 tem(e): (Note: Show breakdown of estimated costs only s of the project serving pollution control purposes. all be furnished with the application for operation
None		Start of Construction <u>Decembe</u> Costs of pollution control eye for individual components/unit Information on actual costs sh permit.)	r 1, 1988 Completion of Construction June 1, 1989 tem(e): (Note: Show breakdown of estimated costs only s of the project serving pollution control purposes. all be furnished with the application for operation
None		Start of Construction <u>Decembe</u> Costs of pollution control eye for individual components/unit Information on actual costs sh permit.)	r 1, 1988 Completion of Construction June 1, 1989 tem(e): (Note: Show breakdown of estimated costs only s of the project serving pollution control purposes. all be furnished with the application for operation
		Start of Construction <u>Decembe</u> Costs of pollution control eye for individual components/unit Information on actual costs sh permit.)	r 1, 1988 Completion of Construction June 1, 1989 tem(e): (Note: Show breakdown of estimated costs only s of the project serving pollution control purposes. all be furnished with the application for operation
		Start of Construction Decembe Costs of pollution control eye for individual components/unit Information on actual costs sh permit.) Estimated cost of installed Indicate any previous DER perm	r 1, 1988 Completion of Construction June 1, 1989 tem(e): (Note: Show breakdown of estimated costs only s of the project serving pollution control purposes. all be furnished with the application for operation pollution control equipment = \$20,000.00.
		Start of Construction Decembe Costs of pollution control eye for individual components/unit Information on actual costs sh permit.) Estimated cost of installed Indicate any previous DER perm point, including permit issuen	r 1, 1988 Completion of Construction June 1, 1989 tem(e): (Note: Show breakdown of estimated costs only e of the project serving pollution control purposes. ell be furnished with the application for operation pollution control equipment = \$20,000.00.
		Start of Construction Decembe Costs of pollution control eye for individual components/unit Information on actual costs sh permit.) Estimated cost of installed Indicate any previous DER perm point, including permit issuen	tem(s): (Note: Show breakdown of estimated costs onle of the project serving pollution control purposes. all be furnished with the application for operation pollution control equipment = \$20,000.00.

Effective October 31, 1982

· · · · · · · · · · · · · · · · · · ·	
	_
(f this is a new mource or major modification, anewer the following quest	ions.
. Is this source in a non-attainment area for a particular pollutant?	Yes
s. If yes, has "offset" been applied?	No
b. If yes, has "Lowest Achievable Emission Rate" been applied?	No
c. If yes, list non-attainment pollutants. Particulates	
Does best available control technology (BACT) apply to this source? If yes, see Section VI.	No
Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	No
Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	No
Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	No
o "Reasonably Available Control Technology" (RACT) requirements apply this source?	Yes
m. If yes, for what pollutants? Particulates	

* Harristelland offer

Attach all supportive information related to any answer of "Yes". Attach any justifi-

cation for any enswer of "No" that might be considered questionable.

any information requested in Rule 17-2.650 must be submitted.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (6ther than Incinerators)

A. Raw Materials and Chemicala Used in your Process, if applicable:

	Contant	inants	Utilization		
Description	Type	% Wt	Rate - lbs/hr	Relate to Flow Diagram	
Limestone	Particulates	Unknown	20,000#/HR	See Flow Chart	
Springer Control of the American		·			
					
	·		<u> </u>	·	

A.	Process	Rate.	1 f	applicable:	(500	Section	٧.	Item 1)
	1 100000		• •	annit center	(386	36661011		A 6 0 0 0 1 /

1.	Total	Process	Input	Rate	(lbs/hr):	•	.20.	.000	#/HR

_			() ()	20,000 #/	מטו
2.	Product	Weight	(lbs/br):	ZU.UUU #7	нк

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of	Emiss	ionl	Allowed ² Emission Rate per	Allowable ³ Emission	Potentia Emissio		Relate to Flow	
Conteminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/xxx HR	T/yr	Disgram	
Particulate	0.4	1.75	N/A	N/A	391	1707	,	
6.8 ₁ - 1		<u> </u>						
- A- Ç .								

¹⁵ee Section V, Item 2.

Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard.

^{*}Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	ame and Type Contaminant of & Serial No.)		Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)	
Flex-Kleen	,			<u></u>	
84-CT-38-III .	Particulate	99%+	Unknown	Estimate	

E. Fuels N/A

	Consump	tion*	Maximum Heat Input (MMBTU/hr)		
Type (Be Specific)	avg/hr	max./hr			
,		·			
,					
	·				

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

=	uel	40.	. 1 .	- 4	
•	13 M T	Ans	I T A		. B I

Percent Sulfur:		Percent Ash:	· · · · · · · · · · · · · · · · · · ·
Density:			
Heat Capacity:	BTU/1b		BTU/gal
Sther Fuel Contaminants (which may can	•		
F. If applicable, indicate the percentage		l used for apace heating.	in March Line
G. Indicate liquid or solid wastes g			
		· ·	
	_		

		45		ft. S	tack Diame	ter:1	0.40
Gas Flow Rate:						mperature:	·
Water Vapor Co	ntent:	Ambi	ent	x v	elocity: _	4	6.4
		SECT	ION IV:	INCINERAT	OR INFORMA	TION N/A	
	/pe O				I Type IV (Patholo ical)	g- (Liq.& Ga	Type VI s (Solid By-pro
Actual lb/hr Inciner- ated							
Uncon- trolled (Ibs/hr)		:					
	ber of	Hours of (_		/hr)
ate Constructe				Model	No		
		Volume (ft) ³		elease /hr)	Type Fu	el BĭU/hr	Temperature (*F)
Primary Chambe	r						
Secondary Cham	ber						
		ft. S	tack Dia	mter:		Stack	Темр
tack Height: _			ACFH		DSCFM	* Velocity:	
			· —				•

Effective November 30, 1982

. .

Brief d	escription of operating characteristics of control devices:
J	et Pulse Baghouse
	,
Ultimate	disposal of any effluent other than that emitted from the etack (scrubber water,
A	ll collected material is returned to Process.

y . t

. 5%

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

SECTION V: SUPPLEMENTAL REQUIREMENTS Attached

Please provide the following supplements where required for this application.

- 1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
- 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of air-borne emissions, in relation to the aurrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9.	The appropriate application fee in accommade payable to the Department of Enviro	rdance with Rule 17-4.05. The check should be meental Regulation.
10.		t, attach a Certificate of Completion of Conwas constructed as shown in the construction
	SECTION VI: BEST AVAI	LABLE CONTROL TECHNOLOGY N/A
۸.	Are standards of performance for new at applicable to the source?	ationary sources pursuant to 40 C.F.R. Part 6
	[] Yes [] No.	
	Contaminant	Rate or Concentration
	· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	
в.	Has EPA declared the best available con yes, attach copy)	trol technology for this class of sources (I
	[] Yes [] No	
	Conteminant	Rate or Concentration
	•	
c.	What emission levels do you propose as b	est available control technology?
	Contaminant	Rate or Concentration
D.	Describe the existing control and treatm	ent technology (if any).
	1. Control Device/System:	2. Operating Principles:
	3. Efficiency:*	4. Capital Costa:

Page 8 of 12

*Explain method of determining

Effective November 30, 1982

DER Form 17-1.202(1)

Best Available Copy

N/A licability to manufacturing processes: lity to construct with control device, install in available space, and operate hin proposed levela: trol Device: Operating Principles: iciency: 1 Capital Cost: ful Life: Operating Cost: .gy:2 h. Maintsnance Cost: .lability of construction materials and process chemicals: icability to manufacturing processes: ity to construct with control device, install in available space, and operate in proposed levels: rol Device: b. Operating Principles: d. Capital Costs: ul Life: f. Operating Cost: gy:2 h. Maintenance Cost: lability of construction materials and process chemicals: icability to manufacturing processes: ity to construct with control device, install in available space, and operate in proposed levele: the control technology selected: 2. Efficiency: 1 ol Device: al Cost: Useful Life: ting Coat: enance Cost: Manufecturer: locations where employed on similar processes: Company: ing Address: (4) State: od of determining efficiency. reported in units of electrical power - KWH design rate.

Page 10 of 12

.202(1)

ember 30, 1982

Best Available Copy

T

- j. App
- k. Abi wit.

3.

- a. Con'
- c. Eff:
- e.Uset
- g. Ene#
- f. Avei
- j. Appl
- k. Abil with
- 4.
- a. Cont
- c. Effi
- e. Usef
- g. Ener
- i. Avai.
- j. Appla
- k. Abil: with:

F. Describe

- 1. Cont:
- 3. Capit
- 5. Opers
- 7. Maint
- 9. Other
- a. (1)
- (2) Mail
- (3) City

lExplain meth 2Energy to be

DER Form 17-1 Effective Nov

N/A Useful Life: Operating Costs: Energy: Maintenance Cost: Emissions: Contaminant Rate or Concentration 10. Stack Parameters Height: ft. Diameter: ft. ь. Flow Rate: ACFH ·F. d. Temperature: FPS Velocity: Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). 1. Control Device: b. Operating Principles: Efficiency: 1 Capital Cost: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: j. Applicability to manufacturing processes: k. Ability to construct with control device, install in available space, and operate within proposed levels: 2. Control Device: Operating Principles: Efficiency: 1 Capital Cost: Useful Life: Operating Coat: Energy: 2 Maintenance Cost: ۹. Availability of construction materials and process chemicals: $^{
m I}$ Explain method of determining efficiency.

DER Form 17-1.202(1) Effective November 30, 1982

 2 Energy to be reported in units of electrical power - KWH design rate.

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33810



NOV 1 1988.

DER - BAQM

GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

WILLIAM K. HENNESSEY DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

•				
SOURCE TYPE:	Air Pollution	[x] New ¹	[] Exi	sting ¹
APPLICATION TYPE:	[X] Construction []	Operation [] H	lodificat	tion
	d Bond Building Products	, Division of Nat	ional	COUNTY: Hillsborough
Identify the spec	sum Company ific emission point sou enturi Scrubber; Peakin			Joint Compound
	Street 6110 Commerce S		FIFEG)	Bin Port Tampa
	UTM: East_ 17-347.3		North_	
APPLICANT NAME AN	Latitude 27 • 52 • D TITLE: R. G. Moore,	W		ude <u>02 ° 33 '</u> "W
•	: 6110 Commerce Street,		Tampa,	FLA 33616
I certify that permit are trailing agree to make facilities in Statutes, and also understated in I will prestablishment	t the statements made in ue, correct and complete aintain and operate the such a manner as to a all the rules and regund that a permit, if go comptly notify the depar	ized representation this application to the best of see pollution controlly with the lations of the detanted by the detanted by the detant upon sale of the see the sale of th	ve* of_ on for a my know crol sou provisio partment partment or legal	Gold Bond Building Production of National Gyps Company Construction ledge and belief. Further cree and pollution control of Chapter 403, Flori t and revisions thereof. will be non-transferable transfer of the permitter
*Attach-letter af	authorization	Signed: RC	> 1/2 0	و ا
bs pribes and sware	to before me this 1988.	R. G. Moore,	Plant M	anager (Please Type)
3 2 2 2	STATE OF FLORIDA			Phone No. (813)839-2111
B. PROFESSIONAL	EXP JUNE 18,1990 ENERAL INS. UND. ENGINEER REGISTERED IN 1	FLORIDA (where re	quired	

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, the

pollution sources.	Signed PACCLL	
	Padamshi H. Chheda	
	Gold Bond Building Produc Gypsum Company	cts, Division of Na
**************************************	Company Name (Pl 2001 Rexford Road, Charlotte,	
	Mailing Address	
ida Registration No. 2843	33 Date: 10/10/88 Telephone	No. (704)365-7238
	ON II: GENERAL PROJECT INFORMATION	
	tent of the project. Refer to pollution	
and expected improvementa	in source performance as a result of in source performance. Attach additional sources and sources are sources as a result of in source performance.	netallation. Stat
•	e ground and air conveyed with 360 CFM a	air to a holding bi
with a 90 square foot Rac	phones which will posult in full compli-	nco
with a 90 square foot Bag	ghouse which will result in full complia	ance.
with a 90 square foot Bag	ghouse which will result in full complia	ance.
with a 90 square foot Bag	ghouse which will result in full complia	ance.
	ghouse which will result in full compliance of the second of this application (Construction Personal Construction Construction Personal Construction Construction Personal Construction Construction Personal Construction Personal Construction Construction Personal Construction Construction Personal Construction Cons	
Schedule of project covere	d in this application (Construction Pe	rmit Application O
Schedule of project covere Start of Construction Dece	ed in this application (Construction Perember 1, 1988 Completion of Construc	rmit Application O
Schedule of project covere Start of Construction Dece Costs of pollution control for individual components/	ed in this application (Construction Perember 1, 1988 Completion of Construction of Construction of Construction of Construction of Construction of the project serving pollution	rmit Application 0 tion June 1, 1989 estimated coets o
Schedule of project covere Start of Construction Dece Costs of pollution control for individual components/Information on schual cost	ed in this application (Construction Perember 1, 1988 Completion of Construction Perember 1, 1988 Completion of Construction Cons	rmit Application 0 tion June 1, 1989 estimated coets o
Schedule of project covere Start of Construction Dece Costs of pollution control for individual components/Information on actual cost permit.)	ember 1, 1988 Completion of Construction Personal Completion of Construction of Construction of Construction of Construction of Construction of the project serving pollution is shall be furnished with the applicat	rmit Application 0 tion June 1, 1989 estimated coets o
Schedule of project covere Start of Construction Dece Costs of pollution control for individual components/Information on actual cost permit.)	ed in this application (Construction Perember 1, 1988 Completion of Construction of Construction of Construction of Construction of Construction of the project serving pollution	estimated costs o control purposes.
Schedule of project covere Start of Construction Dece Costs of pollution control for individual components/Information on actual cost permit.)	ember 1, 1988 Completion of Construction Personal Completion of Construction of Construction of Construction of Construction of Construction of the project serving pollution is shall be furnished with the applicat	estimated costs o control purposes.
Schedule of project covered because of Construction December of Pollution control for individual components/Information on actual cost permit.) Estimated cost of install	ember 1, 1988 Completion of Construction Personal Completion of Construction of Construction of Construction of Construction of Construction of the project serving pollution is shall be furnished with the applicat	estimated costs o control purposes.
Schedule of project covered Start of Construction December of pollution control for individual components/Information on actual cost permit.) Estimated cost of install	ember 1, 1988 Completion of Construction Personal Completion of Construction of Construction of Construction of Construction of Construction of the project serving pollution is shall be furnished with the applicat	rmit Application D tionJune 1, 1989 estimated coets o control purposes. ion for operation
Schedule of project covere Start of Construction Dece Costs of pollution control for individual components/ Information on schual cost permit.) Estimated cost of install Indicate any previous DER	ember 1, 1988 Completion of Construction Permber 1, 1988 Completion of Construction of Show breakdown of Cunits of the project serving pollution is shall be furnished with the applicated dust control = \$15,000.00.	rmit Application D tion June 1, 1989 estimated coets o control purposes. ion for operation
Schedule of project covere Start of Construction Dece Costs of pollution control for individual components/ Information on schual cost permit.) Estimated cost of install Indicate any previous DER	ember 1, 1988 Completion of Construction Permber 1, 1988 Completion of Construction of Construction of Show breakdown of Construction of the project serving pollution is shall be furnished with the application dust control = \$15,000.00.	rmit Application D tion June 1, 1989 estimated coets o control purposes. ion for operation

AC29-156217

\$ 200 pd

Reept. #117574

MENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610

OCT 1 7 1988

GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

DER - BAQM

WILLIAM K. HENNESSEY DISTRICT MANAGER

APPLICATION	TO	OPERATE/	CONSTRUCT	AIR	POLLUTION	SOURCES

SOURCE TIPE: All Politicion	[X] New- [] Existing-
APPLICATION TYPE: [X] Construction []	Operation [] Modification
COMPANY NAME: Gold Bond Building Products	, Division of National county: Hillsborough
Gypsum Company Identify the specific emission point sour	rce(s) addressed in this application (i.e. Lime Joint Compound Unit No. 2, Gas Fired) Polystyrene Storage
SOURCE LOCATION: Street 6110 Commerce S	treet Bin Port Tampa
UTM: East 17-347.3	North 3.082.7
Latitude 27 ° 52 '	"N Longitude 02 ° 33 ' "W
APPLICANT NAME AND TITLE: R. G. Moore,	Plant Manager
APPLICANT ADDRESS: 6110 Commerce Street,	P. O. Box 19307, Tampa, FLA 33616
I am the undersigned owner or authori I certify that the statements made in permit are true, correct and complete I agree to maintain and operate the facilities in such a manner as to c Statutes, and all the rules and regulalso understand that a permit, if gr	Gold Bond Building Product ized representative* of Division of National Gypsu Company this application for a Construction to the best of my knowledge and belief. Further pollution control source and pollution control comply with the provision of Chapter 403, Floridations of the department and revisions thereof. Santed by the department, will be non-transferable than the upon sale or legal transfer of the permitted
*Attach letter of authorization	Signed: RGMoore
	R. G. Moore, Plant Manager Name and Title (Please Type)
	Date: 10-11-88 Telephone No. (813)839-2111
R DONESCIONAL ENGINEED DECICTEDED IN E	TOPIDA (chara required by Charter 471 F C)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

DER Form 17-1.202(1) Effective October 31, 1982

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)

Mill	A.W. Carrier I	Signed PHCLL
11.		Padamshi H. Chheda
100	25 T T T T T T T T T T T T T T T T T T T	Name (Please Type) Gold Bond Building Products, Division of Nation Gypsum Company
. 0		Company Name (Please Type)
	Control of the state of the sta	2001 Rexford Road, Charlotte, N. C. 28211
" di	A. E.	Mailing Address (Please Type)
lor	ida Registration No. 28433	Date: 10/10/8 Telephone No. (704)365-7238
	SECTION I	I: GENERAL PROJECT INFORMATION
		ound and air conveyed with 360 CFM air to a holding bin
	with a 90 square foot Baghous	e which will result in full compliance.
	Schedule of project covered in	this application (Construction Permit Application Only
	Start of Construction December	1, 1988 Completion of Construction June 1, 1989
•	Costs of pollution control sys for individual components/unit	
•	Costs of pollution control sys for individual components/unit Information on actual costs sh	tem(s): (Note: Show breakdown of estimated costs only s of the project serving pollution control purposes. all be furnished with the application for operation
•	Costs of pollution control sys for individual components/unit Information on actual costs sh permit.)	tem(s): (Note: Show breakdown of estimated costs only s of the project serving pollution control purposes. all be furnished with the application for operation
•	Costs of pollution control sys for individual components/unit Information on actual costs sh permit.)	tem(s): (Note: Show breakdown of estimated costs only s of the project serving pollution control purposes. all be furnished with the application for operation
•	Costs of pollution control sys for individual components/unit Information on actual costs sh permit.)	tem(s): (Note: Show breakdown of estimated costs only s of the project serving pollution control purposes. all be furnished with the application for operation

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33810



NOV 1 1988

BOB GRAHAN GOVERNOR

VICTORIA J. TECHIN

WILLIAM K. HENNESSEY DISTRICT MANAGER

DER · BAOM

APPLICATION TO OPERATE	CONSTRUCT AIR POLLUTION SOURCES
SOURCE TYPE: Air Pollution	[] Existing ¹
APPLICATION TYPE: [X] Construction []	Operation [] Modification
COMPANY NAME: Gold Bond Building Products,	Division of National county: Hillsborough
Gypsum Company Identify the specific emission point sour Kiln No. 4 with Venturi Scrubber; Peaking	ce(s) addressed in this application (i.e. Lime Joint Compound
SOURCE LOCATION: Street 6110 Commerce Str	
<u> </u>	North 3.082.7
Latitude 27 • 52 •	
APPLICANT NAME AND TITLE: R. G. Moore, Pl	ant Manager
APPLICANT ADDRESS: 6110 Commerce Street, F	. O. Box 19307, Tampa, FLA 33616
SECTION I: STATEMEN	ITS BY APPLICANT AND ENGINEER
A. APPLICANT I am the undersigned owner or authori I certify that the statements made in	Gold Bond Building Productive* of Division of National Gyps Company Construction Construction
permit are true, correct and complete I agree to maintain and operate the facilities in such a manner as to constitutes, and all the rules and regulated understand that a permit, if grant and also understand that a permit.	to the best of my knowledge and belief. Further pollution control source and pollution control source and pollution control somply with the provision of Chapter 403, Florifications of the department and revisions thereof. Santed by the department, will be non-transferable than the permitted of the permitted of the permitted.
Subscribe Card Normata before me this	R. G. Moore, Plant Manager
MODEL 1988. W. GRINGSTON EXP JUNE 18,1990 BORDED THRU GENERAL INS. UND. B. PROFESSIONAL ENGINEER REGISTERED IN F	Name and Title (Please Type) Date: 10-31-88 Telephone No. (813)839-2111
This is to certify that the engineeri been designed/examined by me and for principles applicable to the treatment	LORIDA (where required by Chapter 471, F.S.) Ing features of this pollution control project has und to be in conformity with modern engineeri at and disposal of pollutants characterized in table assurance, in my professional judgment, the

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

pollution sources.	Signed · PSICLLIA
	Padamshi H. Chheda
• • • • • • • • • • • • • • • • • • •	Name (Please Type)
	Gold Bond Building Products, Division of Nation
	Company Name (Please Type)
	2001 Rexford Road, Charlotte, N. C. 28211
·	Meiling Address (Please Type)
ide Registration No. 28433	Dete: 10-10-1988 Telephone No. (704)365-7238
SECTION	II: GENERAL PROJECT INFORMATION
•	
	nt of the project. Refer to pollution control equipment, source performence as a result of installation. State
whether the project will res	ult in full compliance. Attach additional sheet if
necessary.	
This is a 400 Ass seems	city silo and will contain only limestone. It will be
pneumatically loaded fr	
pneumatically loaded fr CFM conveying air which	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 will be vented thru a 640 sq. ft. baghouse which will
pneumatically loaded fr CFM conveying air which result in full complian	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 memory will be vented thru a 640 sq. ft. baghouse which will note.
pneumatically loaded fr CFM conveying air which result in full complian Schedule of project covered	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 moves will be vented thru a 640 sq. ft. baghouse which will note. In this application (Construction Permit Application Only)
pneumatically loaded from CFM conveying air which result in full compliant schedule of project covered Start of Construction 12/1/8	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 m will be vented thru a 640 sq. ft. baghouse which will note. in this application (Construction Permit Application Only 6/1/89
pneumatically loaded fr CFM conveying air which result in full compliar Schedule of project covered Start of Construction 12/1/8 Costs of pollution control afor individual components/un Information on actual costs permit.)	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 mill be vented thru a 640 sq. ft. baghouse which will note. In this application (Construction Permit Application Only 68 Completion of Construction 6/1/89 System(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. shall be furnished with the application for operation
pneumatically loaded fr CFM conveying air which result in full compliar Schedule of project covered Start of Construction 12/1/8 Costs of pollution control afor individual components/un Information on actual costs permit.)	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 mill be vented thru a 640 sq. ft. baghouse which will note. In this application (Construction Permit Application Only 6/1/89 Completion of Construction 6/1/89 System(a): (Note: Show breakdown of estimated costs only pite of the project serving pollution control purposes. shall be furnished with the application for operation alled dust control system = \$40,000.00
pneumatically loaded fr CFM conveying air which result in full compliar Schedule of project covered Start of Construction 12/1/8 Costs of pollution control afor individual components/un Information on actual costs permit.)	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 mill be vented thru a 640 sq. ft. baghouse which will note. In this application (Construction Permit Application Only 68 Completion of Construction 6/1/89 System(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. shall be furnished with the application for operation
pneumatically loaded fr CFM conveying air which result in full compliar Schedule of project covered Start of Construction 12/1/8 Costs of pollution control afor individual components/un Information on actual costs permit.)	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 mill be vented thru a 640 sq. ft. baghouse which will note. In this application (Construction Permit Application Only 88 Completion of Construction 6/1/89 System(a): (Note: Show breakdown of estimated costs only 120 of the project serving pollution control purposes. Shall be furnished with the application for operation alled dust control system = \$40,000.00
pneumatically loaded fr CFM conveying air which result in full compliar Schedule of project covered Start of Construction 12/1/8 Costs of pollution control afor individual components/un Information on actual costs permit.)	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 mill be vented thru a 640 sq. ft. baghouse which will note. In this application (Construction Permit Application Only 88 Completion of Construction 6/1/89 System(s): (Note: Show breakdown of estimated costs only 120 of the project serving pollution control purposes. Shall be furnished with the application for operation alled dust control system = \$40,000.00
pneumatically loaded fr CFM conveying air which result in full complian Schedule of project covered Start of Construction 12/1/8 Costs of pollution control afor individual components/un Information on actual costs permit.) Estimated cost of insta	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 will be vented thru a 640 sq. ft. baghouse which will nce. in this application (Construction Permit Application Only 88 Completion of Construction 6/1/89 system(a): (Note: Show breakdown of estimated costs only 11th of the project serving pollution control purposes. Shall be furnished with the application for operation alled dust control system = \$40,000.00
pneumatically loaded fr CFM conveying air which result in full compliar Schedule of project covered Start of Construction 12/1/8 Costs of pollution control afor individual components/un Information on actual costs permit.) Estimated cost of insta	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 mill be vented thru a 640 sq. ft. baghouse which will nice. In this application (Construction Permit Application Unly 88
pneumatically loaded fr CFM conveying air which result in full complian Schedule of project covered Start of Construction 12/1/8 Costs of pollution control afor individual components/un Information on actual costs permit.) Estimated cost of insta	rom railcars or trucks at a rate of 10 tons/hr. Using 2300 mill be vented thru a 640 sq. ft. baghouse which will nice. In this application (Construction Permit Application Unly 88

TONT AL

AC 29-156218

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

10-17-89
Recot#117578
BOB GRAHAM
GOVERNOR

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



RECEIVE

VICTORIA J. TSCHINKEL SECRETARY

OCT 1 7 1988

WILLIAM K. HENNESSEY DISTRICT MANAGER

DER - BAQM

APPLICATION	TO	ODEDATE	/CONSTRUCT	ATD	POT TITTON	COMOCEC
WELLTICATION	TO	OPERALE.	\ COMPTWOCT	AIK	LATTATION	OULALES

SOURCE TYPE: Air Pollution	[X] New ¹ [] Existing ¹
APPLICATION TYPE: [X] Construction [] Oper	ation [] Modification
COMPANY NAME: Gold Bond Building Products, Div	ision of National COUNTY: Hillsborough
Gypsum Company Identify the specific emission point source(s) addressed in this application (i.e. Lime Joint Compound
Kiln No. 4 with Venturi Scrubber; Peaking Uni	t No. 2, Gas Fired) Limestone Silo
SOURCE LOCATION: Street 6110 Commerce Street	City_ Port Tampa
UTM: East 17-347.3	North 3.082.7
Latitude 27 ° 52 ' "	N Longitude 02 • 33 · W
APPLICANT NAME AND TITLE: R. G. Moore, Plant	Manager
APPLICANT ADDRESS: 6110 Commerce Street, P. O.	Box 19307, Tampa, FLA 33616
SECTION I: STATEMENTS B	Y APPLICANT AND ENGINEER
A. APPLICANT	Gold Bond Building Products
I am the undersigned owner or authorized	representative* of Division of National Gypsur
I certify that the statements made in thi permit are true, correct and complete to I agree to maintain and operate the pofacilities in such a manner as to compl Statutes, and all the rules and regulation also understand that a permit, if grante and I will promptly notify the department establishment.	company s application for a Construction the best of my knowledge and belief. Further llution control source and pollution contro y with the provision of Chapter 403, Florida ns of the department and revisions thereof. d by the department, will be non-transferable upon sale or legal transfer of the permitter
*Attach letter of authorization Si	gned: 76 moore
	R. G. Moore, Plant Manager Name and Title (Please Type)
Da	te: 10-11-88 Telephone No. (813) 839-2111
B. PROFESSIONAL ENGINEER REGISTERED IN FLORI	DA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

DER Form 17-1.202(1) Effective October 31, 1982

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)

,				
		Padamshi H. Chheda		
•	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Name (Please Type) Gold Bond Building Products, Division of Natior Gypsum Company		
	3 3 3	Company Name (Please Type)		
	CA TO MANUEL TO A STATE OF THE	2001 Rexford Road, Charlotte, N. C. 28211 Mailing Address (Please Type)		
	20422			
) E	rida Regietration No. 20433	Date: 10-10-1988 Telephone No. (704)365-7238		
	SECTION II	: GENERAL PROJECT INFORMATION		
	necassary.	in full compliance. Attach additional sheet if		
•		railcars or trucks at a rate of 10 tons/hr. Using 2300		
	CFM conveying air which wi	11 be vented thru a 640 sq. ft. baghouse which will		
	result in full compliance.			
	result in full compliance.	· · · · · · · · · · · · · · · · · · ·		
	result in full compliance. Schedule of project covered in			
	result in full compliance. Schedule of project covered in Start of Construction 12/1/88 Costs of pollution control syst for individual components/units Information on actual costs shapermit.)	this application (Construction Permit Application Only)		
	result in full compliance. Schedule of project covered in Start of Construction 12/1/88 Costs of pollution control syst for individual components/units Information on actual costs shapermit.)	this application (Construction Permit Application Only) Completion of Construction $\frac{6/1/89}{}$ em(s): (Note: Show breakdown of estimated costs only of the project serving pollution control purposes.		
	result in full compliance. Schedule of project covered in Start of Construction 12/1/88 Costs of pollution control syst for individual components/units Information on actual costs shapermit.)	this application (Construction Permit Application Only)		
	result in full compliance. Schedule of project covered in Start of Construction 12/1/88 Costs of pollution control syst for individual components/units Information on actual costs shapermit.)	this application (Construction Permit Application Only)		
	result in full compliance. Schedule of project covered in Start of Construction 12/1/88 Costs of pollution control syst for individual components/units Information on actual costs shapermit.)	this application (Construction Permit Application Only)		
	result in full compliance. Schedule of project covered in Start of Construction 12/1/88 Costs of pollution control syst for individual components/units Information on actual costs shapermit.) Estimated cost of installed	this application (Construction Permit Application Only) Completion of Construction 6/1/89 em(s): (Note: Show breakdown of estimated costs only of the project serving pollution control purposes. It be furnished with the application for operation ed dust control system = \$40,000.00		

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



NOV

WILLIAM K. HENNESSEY DISTRICT MANAGER

DER-BAQM

. "	APPLICATION TO OPERAT	E/CONSTRUCT AIR PO	OLLUTION SOURCES	
SOURCE TYPE:	Air Pollution	[X] New ¹	[] Existing ¹	
APPLICATION T	PE: [X] Construction [Operation []	Modification	
COMPANY NAME:	Gold Bond Building Produc	ts, Division of Na	tional COUNTY	Hillsborough
Identify the	Gypsum Company point so	urce(s) addressed	in this applica	tion (i.e. Lime ompound
Kiln No. 4 wi	th Venturi Scrubber; Peaki	ng Unit No. 2, Ga	s Fired) Polysty	rene Feed
SOURCE LOCATIO	N: Street 6110 Commerce	Street	Hopper City	Port Tampa
	UTM: East 17-347.3		·	
	Latitude 27 52	''N	Longitude 02	• <u>33</u> ''W
APPLICANT NAME	AND TITLE: R. G. Moore	, Plant Manager		
APPLICANT ADD	ESS: 6110 Commerce Street	, P. O. Box 19307	, Tampa, FLA 33	616
	SECTION I: STATEM	ENTS BY APPLICANT	AND ENGINEER	
A. APPLICANT	· ·		Gold Bond	Building Products
I am the t	indersigned owner or author	rized representat	ive* of U1V1S1ON	or National Gypsur
I certify	that the statements made : true, correct and comple	in this application	on for a	Construction
facilities Statutes, also unde	o maintain and operate to in such a manner as to and all the rules and regretand that a permit, if a promptly notify the department.	he pollution con comply with the ulations of the de granted by the de	trol source and provision of Ch epartment and re partment, will l	pollution control apter 403, Florid visions thereof. be non-transferabl
*Atsach legie	of authorization	Signed: RC	more	
Subscrabed and Gwo	st authorization or to before me this Octaber 1988.	R. G. Moore	e, Plant Manager d Title (Please	Type)

W CONTRESSON EXP JUNE 18,1990
BORDED THRU GENERAL INS. UND. BONDER THROUGH 18,1990

BONDER

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

Date: 10-31-68 Telephone No. (813)839-2111

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)



the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable attutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

	pollution sources.	
	ा अपन्यक्षित् । च अस्तिकृतिकृति	Signed PMCLL
	、数: 数: とは・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	Padamshi H. Chheda
		Name (Please Type)
		Gold Bond Building Products, Division of National Gypsum Company
	•	Company Name (Places Type)
		2001 Rexford Road, Charlotte, NC. 28211
		Mailing Address (Please Type)
T	ids Registration No. 28433	Dete: 10/10/88 Telephone No. (704)365-7238
	SECTION I	II: GENERAL PROJECT INFORMATION
	and expected improvements in s	t of the project. Refer to pollution control equipment, source performence as a result of inetallation. State lt in full compliance. Attach additional aheet if
	This is a Holding Hopper for	ground polystyrene. It is blower fed with 360 CFM air
•	and has a 90 square foot Bag	house which will result in full compliance.
•		
•	· · · · · · · · · · · · · · · · · · ·	
•		
•	Schedule of project covered in	n this application (Construction Permit Application Only
		n this application (Construction Permit Application Only
;	Start of Construction Decembe Costs of pollution control sys for individual components/unit	er 1, 1988 Completion of Construction June 1, 1988
;	Start of Construction December Costs of pollution control sysfor individual components/unit Information on actual costs sh	er 1, 1988 completion of Construction June 1, 1988 stem(s): (Note: Show breakdown of estimated costs only te of the project serving pollution control purposes. hell be furnished with the application for operation
1	Start of Construction December Costs of pollution control sysfor individual components/unit Information on actual costs shownit.)	er 1, 1988 completion of Construction June 1, 1988 stem(s): (Note: Show breakdown of estimated costs only te of the project serving pollution control purposes. hell be furnished with the application for operation
1	Start of Construction December Costs of pollution control sysfor individual components/unit Information on actual costs shownit.)	er 1, 1988 Completion of Construction June 1, 1988 stem(s): (Note: Show breakdown of estimated costs only te of the project serving pollution control purposes. hell be furnished with the application for operation dust control = \$15,000.00.
1	Start of Construction December Costs of pollution control sysfor individual components/unit Information on actual costs shownit.)	er 1, 1988 Completion of Construction June 1, 1988 stem(s): (Note: Show breakdown of estimated costs only ts of the project serving pollution control purposes. hell be furnished with the application for operation dust control = \$15,000.00.
;	Start of Construction December Costs of pollution control sysfor individual components/unit Information on actual costs shownit.)	stem(s): (Note: Show breakdown of estimated costs only to of the project serving pollution control purposes. hell be furnished with the application for operation dust control = \$15,000.00.
1	Start of Construction Decembe Costs of pollution control sys for individual components/unit Information on actual costs sh parmit.) Estimated cost of installed	er 1, 1988 completion of Construction June 1, 1988 stem(s): (Note: Show breakdown of estimated costs only te of the project serving pollution control purposes. hell be furnished with the application for operation dust control = \$15,000.00.
1	Start of Construction Decembe Costs of pollution control sys for individual components/unit Information on actual costs sh parmit.) Estimated cost of installed Indicate any previous DER parm	er 1, 1988 completion of Construction June 1, 1988 stem(s): (Note: Show breakdown of estimated costs only te of the project serving pollution control purposes. hell be furnished with the application for operation dust control = \$15,000.00.
	Start of Construction December Costs of pollution control system for individual components/unit Information on actual costs shapermit.) Estimated cost of installed Indicate any previous DER parapoint, including permit issuen	er 1, 1988 Completion of Construction June 1, 1988 stem(s): (Note: Show breakdown of estimated costs only the of the project serving pollution control purposes. The project serving pollution for operation dust control = \$15,000.00.

Page 2 of 12

Effective October 31, 1982

AC 29-156219

STATE OF FLORIDA

MENT OF ENVIRONMENTAL REGULATION

117578

\$ 200 pd.

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610

OCT 17 1988

WILLIAM K. HENNESSEY DISTRICT MANAGER

DER · BAQM

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Air Pollution	[X] New ¹ [] Existing ¹
APPLICATION TYPE: [X] Construction [] C	Operation [] Modification
COMPANY NAME: Gold Bond Building Products,	Division of National COUNTY: Hillsborough
Gypsum Company Identify the specific emission point source Kiln No. 4 with Venturi Scrubber; Peaking	e(s) addressed in this application (i.e. Lime Joint Compound Unit No. 2. Gas Fired) Polystyrene Feed
SOURCE LOCATION: Street 6110 Commerce St	Hoppon
UTM: East 17-347.3	North 3.082.7
Latitude 27 ° 52	
APPLICANT NAME AND TITLE: R. G. Moore, F	
APPLICANT ADDRESS: 6110 Commerce Street, F	P. O. Box 19307, Tampa, FLA 33616
A. APPLICANT I am the undersigned owner or authoriz I certify that the statements made in permit are true, correct and complete I agree to maintain and operate the facilities in such a manner as to co Statutes, and all the rules and regula also understand that a permit, if gra	Gold Bond Building Products ded representative* of Division of National Gypsum Company this application for a Construction to the best of my knowledge and belief. Further, pollution control source and pollution control omply with the provision of Chapter 403, Floridations of the department and revisions thereof. Inted by the department, will be non-transferable ment upon sale or legal transfer of the permitted
*Attach letter of authorization	Signed: RGM roce
	R. G. Moore, Plant Manager Name and Title (Please Type)
	Date: 10-11-66 Telephone No. (813)839-2111
B. PROFESSIONAL ENGINEER REGISTERED IN FI	ORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12



the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.



Signed	PAICHL
	Padamshi H. Chheda
	Nema (Please Type)

Gold Bond Building Products, Division of National Gypsum Company

Company Name (Please Type)

2001 Rexford Road, Charlotte, NC. 28211

Mailing Address (Please Type)

Florida Registration No. 28433

Date: 10/10/88 Te

SECTION II: GENERAL PROJECT INFORMATION

A.	Describe the nature and	extent of the project.	Refer to pol	lution control	equipment,
	and expected improvemen	ts in source performance	as a result	of installation	. State
	whether the project wil	l result in full complia	nce. Attach	additional shee	t if
	necessary.				•

This is a Holding Hopper for ground polystyrene. It is blower fed with 360 CFM air

and has a 90 square foot Baghouse which will result in full compliance.

- B. Schedule of project covered in this application (Construction Permit Application Only)

 Start of Construction December 1, 1988 Completion of Construction June 1, 1988
- C. Costs of pollution control system(s): (Note: Show breakdown of estimated coets only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Estimated cost of installed dust control = \$15,000.00.

D. Indicate any previous DER permita, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7601 HIGHWAY 301 NORTH

TAMPA FLORIDA 33610



NOV

WILLIAM K. HENNESSEY DISTRICT MANAGE F

DER - BAOM

	WELLIAMING IN ALEMENTON	SIRUCI AIR FULLUTION	
SOURCE TYPE:	Air Pollution	[X] New ¹ [] Exis	stingl
APPLICATION TO	YPE: [X] Construction [] Ope	ration [] Modificat	ion
COMPANY NAME:	Gold Bond Building Products, D	ivision of National	COUNTY: Hillsborough
•	Gypsum Company specific emission point source(th Venturi Scrubber; Peaking Un		Joint Compound
SOURCE LOCATIO	ON: Street 6110 Commerce Str	eet	City Port Tampa
	UTM: East 17-347.3	North	3.082.7
	Latitude 27 52	"N Longitu	ide <u>02</u> • <u>33</u> ' <u>"</u> W
APPLICANT NAME	E AND TITLE: R. G. Moore, Plan	t Manager	
APPLICANT ADD	RESS: 6110 Commerce Street, P.	O. Box 19307, Tampa,	FLA 33616

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

APPLICANT

Gold Bond Building Product

I am the undersigned owner or authorized representative* of Division of National Gypsu Company

I certify that the statements made in this application for a Construction permit are true, correct and complete to the best of my knowledge and belief. Further I agree to maintain and operate the pollution control source and pollution contr facilities in such a manner as to comply with the provision of Chapter 403, Flori Statutes, and all the rules and regulations of the department and revisions thereof. also understand that a permit, if granted by the department, will be non-transferal and "I will promptly notify the department upon sale or legal transfer of the permit

achole ger of authorization Subscribed and sworn to before me this WY COMMISSION EXP JUNE 18,1990

R. G. Moore, Plant Manager Name and Title (Please Type)

Date: 10-31-68 Telephone No. (813)839-2111

BONDED THRU GENERAL INS. UND. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project has been designed/examined by me and found to be in conformity with modern engineers principles applicable to the treatment and disposal of pollutants characterized in t permit application. There is reasonable assurance, in my professional judgment, the

DER Form 17-1.202(1)

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)

	an effluent that complies with rules and regulations of the furnish, if authorized by the	ties, when properly maintained and operated, will dischar the all applicable attitudes of the State of Florida and the department. It is also agreed that the undersigned will sowner, the applicant a set of instructions for the properties the pollution control facilities and, if applicable,
	n in in f erio in the figure	Signed PUCL
		Padamshi H. Chheda
ţ		Gold Bond Building Products, Division of National Gypsum Company
		Company Name (Please Type)
		2001 Rexford Road, Charlotte, N. C. 28211
		Mailing Address (Please Type)
0	ride Registration No. 28433	Date: 10/10/88 Telephone No. (704)365-7238
	SECTION	II: GENERAL PROJECT INFORMATION
•	and expected improvements in	nt of the project. Refer to pollution control equipment, source performance as a result of installation. State ult in full compliance. Attach additional sheet if
	The dry mixing process util	izes a 250 square foot Baghouse to vent 700 CFM air
	which will result in full c	
	William Will lead to the fall c	ompitance.
•	Schedule of project covered :	in this application (Construction Parait Application Only
	·•	in this application (Construction Permit Application Only per 1, 1988 Completion of Construction June 1, 1989
•	Start of Construction <u>Decemb</u> Costs of pollution control sy for individual components/uni	er 1, 1988 Completion of Construction June 1, 1989
	Start of Construction <u>Decemb</u> Costs of pollution control sy for individual components/uni Information on actual costs of permit.)	ystem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes.
	Start of Construction <u>Decemb</u> Costs of pollution control sy for individual components/uni Information on actual costs of permit.)	ver 1, 1988 Completion of Construction June 1, 1989 yetem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. shall be furnished with the application for operation pollution control equipment = \$20,000.00.
	Start of Construction <u>Decemb</u> Costs of pollution control sy for individual components/uni Information on actual costs of permit.)	yetem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. shall be furnished with the application for operation pollution control equipment = \$20,000.00.
	Start of Construction <u>Decemb</u> Costs of pollution control sy for individual components/uni Information on actual costs of permit.)	ver 1, 1988 Completion of Construction June 1, 1989 yetem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. shall be furnished with the application for operation pollution control equipment = \$20,000.00.
	Start of Construction <u>Decemb</u> Costs of pollution control sy for individual components/uni Information on actual costs of permit.)	ystem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. shall be furnished with the application for operation pollution control equipment = \$20,000.00.
	Coets of pollution control sy for individual components/uninformation on actual costs apermit.) Estimated cost of installed	ystem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. shell be furnished with the application for operation pollution control equipment = \$20,000.00.
•	Start of Construction December Costs of pollution control sy for individual components/unit Information on actual costs of permit.) Estimated cost of installed Indicate any pravious DER permits.	yetem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. Shell be furnished with the application for operation pollution control equipment = \$20,000.00.
•	Start of Construction December Costs of pollution control sy for individual components/unit Information on actual costs of permit.) Estimated cost of installed Indicate any pravious DER per point, including permit is au	yetem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. Shell be furnished with the application for operation pollution control equipment = \$20,000.00.
•	Start of Construction December Costs of pollution control sy for individual components/unit Information on actual costs of permit.) Estimated cost of installed Indicate any pravious DER per point, including permit is au	ver 1, 1988 Completion of Construction June 1, 1989 yetem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. shell be furnished with the application for operation pollution control equipment = \$20,000.00.

Ac 29-156220

300 pd. 10-17-88 leept.#117579

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610 TATE OF ROOM

OCT 17 1988

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

DER BAOM

WILLIAM K. HENNESSEY DISTRICT, MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Air Pollution [X] New [] Existing [
APPLICATION TYPE: [X] Construction [] Operation [] Modification
COMPANY NAME: Gold Bond Building Products, Division of National COUNTY: Hillsborough Gypsum Company
Identify the specific emission point source(s) addressed in this application (i.e. Lime Joint Compound Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Dry Mixing
SOURCE LOCATION: Street 6110 Commerce Street City Port Tampa
UTM: East 17-347.3 North 3.082.7
Latitude 27 ° 52 ' ''N Longitude 02 ° 33 ' ''W APPLICANT NAME AND TITLE: R. G. Moore, Plant Manager
APPLICANT ADDRESS: 6110 Commerce Street, P. O. Box 19307, Tampa, FLA 33616
SECTION I: STATEMENTS BY APPLICANT AND ENGINEER
A. APPLICANT I am the undersigned owner or authorized representative* of Division of National Gypsum Company I certify that the statements made in this application for a Construction permit are true, correct and complete to the best of my knowledge and belief. Further
I agree to maintain and operate the pollution control source and pollution contro facilities in such a manner as to comply with the provision of Chapter 403, Florid Statutes, and all the rules and regulations of the department and revisions thereof. also understand that a permit, if granted by the department, will be non-transferabl and I will promptly notify the department upon sale or legal transfer of the permitte establishment.
*Attach letter of authorization Signed: RCM 5000
R. G. Moore, Plant Manager
Name and Title (Please Type)
Date: 10-11-88 Telephone No. (813)839-2111
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

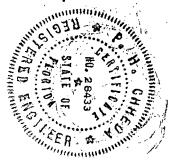
1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

HARRIE

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.



Signed		PHL	LL			·.		
*	Pada	<i>l</i> mshi H.∙	Chheda	٠,	· .			
Gold	Bond B	uilding	Name (P Product	lease s, Di	Type) vision	of Nat	ional	

Company Name (Please Type)

2001 Rexford Road, Charlotte, N. C. 28211

Mailing Address (Please Type)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

Gypsum Company

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

The dry mixing process utilizes a 250 square foot Baghouse to vent 700 CFM air which will result in full compliance.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction December 1, 1988 Completion of Construction June 1, 1989

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Estimated cost of installed pollution control equipment = \$20,000.00.

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWÄY 301 NORTH TAMPA, FLORIDA 33610



CEIVED

DER - BAQM

NOV

. ' (

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

WILLIAM K. HENNESSEY DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Air Pollution	[X] New ¹ [] Existing ¹
APPLICATION TYPE: [X] Construction []	Operation [] Modification
COMPANY NAME: Gold Bond Building Produc	ts, Division of National county: Hillsborough
Gypsum Company Identify the specific emission point sou Kiln No. 4 with Venturi Scrubber; Peaking	urce(s) addressed in this application (i.e. Lime Joint Compound ng Unit No. 2, Gas Fired) Wet Mixer
SOURCE LOCATION: Street 6110 Commerce	Street City Port Tampa
UTM: East 17-347.	3 North 3.082.7
Latitude 27 52 APPLICANT NAME AND TITLE: R. G. Moore,	
APPLICANT ADDRESS: 6110 Commerce Street	, P. O. Box 19307, Tampa, FLA 33616
I certify that the statements made in permit are true, correct and complet I agree to maintain and operate the facilities in such a manner as to Statutes, and all the rules and regulated understand that a permit, if go and I will promptly notify the department.	Gold Bond Building Products rized representative* of Division of National Gypsur in this application for a Company Construction te to the best of my knowledge and belief. Further the pollution control source and pollution control comply with the provision of Chapter 403, Florid comply with the provision of Chapter 403, Florid comply with the department and revisions thereof. The granted by the department, will be non-transferable rement upon sale or legal transfer of the permitter
Subscribed and sworm to before me this day of Control of Flurida NY TO MASSINE XP JUNE 18,1990 CROWDED WARD GENERAL INS. UND.	R. G. Moore, Plant Manager Name and Title (Please Type) Date: 10-31-68 Telephone No. (813)839-2111 FLORIDA (where required by Chapter 471, F.S.)
This is to certify that the engineer	ring features of this pollution control project hav

been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

Page 1 of 12

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1)

Effective October 31, 1982

		Signed	#0	ICH	/	/	•
· · · · · ·		- <u>-</u>	adamshi	H. Chheda			,
· -		Gold B Gypsum	Company	ding Produc	•	ion of Na	tional
		0004 D		Company Na			
٠.		2001_R	extord R	oad, Charlo Mailing Ad	otte, N. C dress (Pl	. 28211 Dase Type)
ida Registrati	on No. 28433	Date: /	0/10/	88 Tolo	phone No.	(704)365-	7238
		-	' /			170,7000	1.600
	SECTION I	II GEWEKY	L PRUJEC	T INFORMAT	TUR		
	sture and extent mprovements in s						
whether the pr	oject will resul						
necessary.	,						
The wet mix	er holding bin	for lim	estone	is vented	l thru a	175 sq.	ft.
baghouse wi	th 700 cfm air	flow &	will re	sult in f	ull comp	oliance.	
							
··· = = ·							
							
Schedule of pr	oject covered in	this appl	ication	(Conetruct	ion Permi	t Applica	tion (
Start of Const	ruction Dec. 1	. 1988	Comole	tion of Co	natructio	n Jan	1. 19
·			•				
for individual Information on permit.)	tion control system components/units actual costs sho	s of the p all be fur	roject a nishad w	erving pol	lution co	ntrol pur	poses.
	timated cost o						
Do	llution contro	l equipm	ent is	\$15,000		11,03	ئ
PU							. 67.
				· · · · · · · · · · · · · · · · · · ·	ر ما		7
PU						: co : m;- :	
					-	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	, ~~~
	revious DER pers	ita, order	s and no	tices seso	cisted wi	th the .ea	100100
Indicate any p	revious DER perm ng permit issusn				cisted wi	th the .en	ieeio

CONFIDENTAL

Air Pollution

AC29-156221

100pd, 10-17-68 Rept.# 117579

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610

SOURCE TYPE:

TANT OF ROSE

OCT 1 7 1988

[X] New [] Existing [

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

WILLIAM K. HENNESSEY DISTRICT MANAGER

DER BAQM

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

APPLICATION TYPE: [X] Construction [] (Operation [] Modification
COMPANY NAME: Gold Bond Building Products	, Division of National county: Hillsborough
•	ce(s) addressed in this application (i.e. Lime Joint Compound
Kiln No. 4 with Venturi Scrubber; Peaking	
SOURCE LOCATION: Street 6110 Commerce S	treet City Port Tampa
UTM: East 17-347.3	North 3.082.7
Latitude 27 ° 52 '	
APPLICANT NAME AND TITLE: R. G. Moore, P	lant Manager
APPLICANT ADDRESS: 6110 Commerce Street,	P. O. Box 19307, Tampa, FLA 33616
SECTION I: STATEMENT	TS BY APPLICANT AND ENGINEER
I certify that the statements made in permit are true, correct and complete I agree to maintain and operate the facilities in such a manner as to constant the statutes, and all the rules and regula	Gold Bond Building Products zed representative* of Division of National Gypsum this application for a Company Construction to the best of my knowledge and belief. Further pollution control source and pollution control omply with the provision of Chapter 403, Floridations of the department and revisions thereof. anted by the department, will be non-transferable
and I will promptly notify the department.	ment upon sale or legal transfer of the permitted
*Attach letter of authorization	Signed: Rohooc
	R. G. Moore, Plant Manager
	Name and Title (Please Type)
	Date: 10-//-8 Telephone No. (813)839-2111
B. PROFESSIONAL ENGINEER REGISTERED IN FI	ORIDA (where required by Chapter 471, F.S.)

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

pollution sources.	Signed PoliCh
S. C.	Padamshi H. Chheda
MO 284 SIATE	Name (Please Type) Gold Bond Building Products, Division of National Gypsum Company
	Company Name (Please Type)
THE R WORLD	2001 Rexford Road, Charlotte, N. C. 28211
Canna and Canada	Mailing Address (Please Type)
orida Registration No. <u>284</u>	33 Date: $10/10/85$ Telephone No. $(704)365-7238$
SECT	ION II: GENERAL PROJECT INFORMATION
whether the project will necessary.	in source performance as a result of installation. State result in full compliance. Attach additional sheet if
	y bin for limestone is vented thru a 175 sg. ft.
baghouse with 700 cfm	n air flow & will result in full compliance.
Schedule of project cover	ed in this application (Conatruction Permit Application D
Start of Construction De Costs of pollution contro for individual components	ec. 1, 1988 Completion of Construction Jan. 1, 19
Start of Construction De Costs of pollution contro for individual components Information on actual cospermit.)	C. 1, 1988 Completion of Construction Jan. 1, 19 1 system(s): (Note: Show breakdown of estimated costs of Junits of the project serving pollution control purposes.
Start of Construction De Costs of pollution contro for individual components Information on actual cospermit.) Estimated co	c. 1, 1988 Completion of Construction Jan. 1, 1980 construction Jan. 1, 1980 l system(s): (Note: Show breakdown of estimated costs of funits of the project serving pollution control purposes. ts shall be furnished with the application for operation
Start of Construction De Costs of pollution contro for individual components Information on actual cospermit.) Estimated co	c. 1, 1988 Completion of Construction Jan. 1, 1980 l system(s): (Note: Show breakdown of estimated costs on /units of the project aerving pollution control purposes. ts shall be furnished with the application for operation ost of installed
Start of Construction De Costs of pollution contro for individual components Information on actual cospermit.) Estimated co	c. 1, 1988 Completion of Construction Jan. 1, 1980 l system(s): (Note: Show breakdown of estimated costs of /units of the project aerving pollution control purposes. ts shall be furnished with the application for operation ost of installed
Start of Construction De Costs of pollution contro for individual components Information on actual cospermit.) Estimated co	ts shall be furnished with the application for operation ost of installed
Costs of pollution control for individual components Information on actual cospermit.) Estimated components Pollution components.	l system(s): (Note: Show breakdown of estimated costs of funits of the project serving pollution control purposes. ts shall be furnished with the application for operation ost of installed ontrol equipment is \$15,000
Costs of pollution control for individual components Information on actual cospermit.) Estimated components Pollution components.	l system(s): (Note: Show breakdown of estimated costs or funits of the project serving pollution control purposes. ts shall be furnished with the application for operation est of installed ontrol equipment is \$15,000

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



ECEIVED

1 1988

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

WILLIAM K. HENNESSEY DISTRICT MANAGER

DER - BAOM

NOV

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Air	Pollution	_ [X] New ^l [] Exi	isting
APPLICATION TYPE:	[X] Construction [] Open	ration [] Modifica	ition
	ld Bond Building Products, D		
	osum Company fic emission point source(s enturi Scrubber; Peaking Uni		Joint Compound
	Street 6110 Commerce Stre		City Port Tampa
	UTM: East 17-347.3		3.082.7
	Latitude 27 • 52 ·	'N Longit	tude <u>02 • 33 · "W</u>
APPLICANT NAME AND	TITLE: R. G. Moore, Plant	Manager	
APPLICANT ADDRESS:	6110 Commerce Street, P.	O. Box 19307, Tampa	FLA 33616
	SECTION I: STATEMENTS I	BY APPLICANT AND ENG	SINEER
A. APPLICANT I am the under	signed owner or authorized	representative* of_	Gold Bond Building Product: Division of National Gypsur
permit are tru I agree to ma facilities in Statutes, and also understan and I will pro establishment. *Attach letter of Subscribed and worn Tay of The Tray of The Tray of The Tray of Tray of Tray The Tray of Tray The Tray of Tray The Tray of Tray The Tray of Tray of Tray The Tray of Tray of Tray The Tray of Tray The Tray of Tray The Tray of Tray of Tray of Tray The Tray of Tray The Tray of Tray of Tray The Tray of Tray of Tray The Tray of Tr	authorization Since the property of the proper	the best of my knowledge to the department of the department of the department upon sale or legal R. G. Moore, For Name and Title the: 10~31~86 Teleate.	viedge and belief. Further urce and pollution control on of Chapter 403, Florid at and revisions thereof. It, will be non-transferable transfer of the permitted view of the per
This "is "to cer	tify that the engineering f	eatures of this pol	lution control project hav

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

been designed/examined by me and found to be in conformity with modern engineerin principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

pollution	sources.	· Parell	
		Signed	
• ••		Padamshi H. Chheda	
		Name (Please Type) Gold Bond Building Products, Division of N Gypsum Company	atior -
		Company Name (Please Type)	
		2001 Rexford Road, Charlotte, N. C. 28211	
		Mailing Address (Please Type)	
rida Regiat	ration No. <u>2843</u>	3 Dete: 10/10/85 Telephone No. (704)365-7238	
	SECTIO	IN II: GENERAL PROJECT INFORMATION	
		in source performance as a result of installation. Stansault in full compliance. Attach additional sheet if	
necessary.	t to a second control of the second control		1+
necessary.	the primary dust	collector for the Dry Bag Material Handling and mixing.	It
This is	 	collector for the Dry Bag Material Handling and mixing.	
This is	 		
This is	 		
This is	 		
This is has 1280	square feet fabr	ric and vents 5120 CFM and will result in full compliance in this application (Construction Permit Application	e.
This is has 1280	square feet fabr	ric and vents 5120 CFM and will result in full complianc	e.
This is has 1280 Schedule of Start of Coata of principle information permit.)	square feet fabres on actual coats	ic and vents 5120 CFM and will result in full compliance in this application (Construction Permit Application cember 1, 1988 Completion of Construction June 1, 19 System(a): (Note: Show breakdown of estimated coats units of the project serving pollution control purposes shall be furnished with the application for operation	Only
This is has 1280 Schedule of Start of Coata of principle information permit.)	square feet fabres on actual coats	ric and vents 5120 CFM and will result in full compliance in this application (Construction Permit Application cember 1, 1988 Completion of Construction June 1, 19 system(s): (Note: Show breakdown of estimated costs units of the project serving pollution control purposes	Only
This is has 1280 Schedule of Start of Coata of principle information permit.)	square feet fabres on actual coats	ric and vents 5120 CFM and will result in full compliance of the application of Construction Dune 1, 19 system(s): (Note: Show breakdown of estimated costs units of the project serving pollution control purposes shall be furnished with the application for operation stalled pollution control equipment = \$60,000.00.	Only
This is has 1280 Schedule of Start of Coata of principle information permit.)	square feet fabres on actual coats	ric and vents 5120 CFM and will result in full compliance of the application of Construction Dune 1, 19 system(s): (Note: Show breakdown of estimated costs units of the project serving pollution control purposes shall be furnished with the application for operation stalled pollution control equipment = \$60,000.00.	Only
This is has 1280 Schedule of Start of Coata of principle information permit.)	square feet fabres on actual coats	ic and vents 5120 CFM and will result in full compliance in this application (Construction Permit Application tember 1, 1988 Completion of Construction June 1, 19 system(s): (Note: Show breakdown of estimated costs units of the project serving pollution control purposes shall be furnished with the application for operation stalled pollution control equipment = \$60,000.00.	Only only
This is has 1280 Schedule of Start of Coata of principle information permit.)	square feet fabres on actual coats	in this application (Construction Permit Application cember 1, 1988 Completion of Construction June 1, 19 system(s): (Note: Show breakdown of estimated costs units of the project serving pollution control purposes shall be furnished with the application for operation stalled pollution control equipment = \$60,000.00.	Only
This is has 1280 Schedule of Start of Costa of pfor individual information permit.) Estimate	square feet fabres on truction Deconstruction Deconstruction Deconstruction dual components/un on actual coats decost of the insert of the ins	ic and vents 5120 CFM and will result in full compliance in this application (Construction Permit Application tember 1, 1988 Completion of Construction June 1, 19 system(s): (Note: Show breakdown of estimated costs units of the project serving pollution control purposes shall be furnished with the application for operation stalled pollution control equipment = \$60,000.00.	Only

Air Pollution

AC 29-156223

200 pd. 10-17-84 Poept, #117579

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610

SOURCE TYPE:



RECEIVED

BOB GRAHAM GOVERNOR

DCT 17 1988 VICTORIA J. TSCHINKEL

WILLIAM K. HENNESSEY DISTRICT MANAGER

DER - BAQM

[X] New [] Existing [

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

	,
APPLICATION TYPE: [X] Construction [] Operation [] Modific	ation
COMPANY NAME: Gold Bond Building Products, Division of National	COUNTY: Hillsborough
Gypsum Company Identify the specific emission point source(s) addressed in thi Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired	Joint Compound
	City Port Tampa
UTM: East 17-347.3 North	3.082.7
Latitude 27 ° 52 ' 'N Longi	tude <u>02 • 33 · </u>
APPLICANT NAME AND TITLE: R. G. Moore, Plant Manager	·
APPLICANT ADDRESS: 6110 Commerce Street, P. O. Box 19307, Tampa	i, FLA 33616
A. APPLICANT I am the undersigned owner or authorized representative* of I certify that the statements made in this application for permit are true, correct and complete to the best of my known is agree to maintain and operate the pollution control as facilities in such a manner as to comply with the provise Statutes, and all the rules and regulations of the department also understand that a permit, if granted by the department and I will promptly notify the department upon sale or leg establishment.	Gold Bond Building Products Division of National Gypsum Company Construction wledge and belief. Further, ource and pollution control ion of Chapter 403, Florida int and revisions thereof. Int, will be non-transferable al transfer of the permitted
*Attach letter of authorization Signed: Row	bol
R. G. Moore, Name and Title	Plant Manager (Please Type)
Date: 10-11-88 Tel	ephone No. (813)839-2111
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required	by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

pollution sources.	Signed PACL
DAR DUNNER	Padamshi H. Chheda
27 A I A 22 B	Name (Please Type) Gold Bond Building Products, Division of Nati Gypsum Company
E A STATE OF THE S	Company Name (Please Type)
ER TO VOLUME	2001 Rexford Road, Charlotte, N. C. 28211
ida Registration No	Mailing Address (Please Type) 28433 Dats: 10/10/88 Telephone No. (704)365-7238
;	SECTION II: GENERAL PROJECT INFORMATION
necessary.	
	dust collector for the Dry Bag Material Handling and mixing. I
This is the primary	dust collector for the Dry Bag Material Handling and mixing. It fabric and vents 5120 CFM and will result in full compliance.
This is the primary	
This is the primary	
This is the primary has 1280 square feet Schedule of project co	
This is the primary has 1280 square feet Schedule of project co Start of Construction Costs of pollution confor individual component	t fabric and vents 5120 CFM and will result in full compliance.
This is the primary has 1280 square feet Schedule of project co Start of Construction Costs of pollution con for individual compone Information on actual permit.)	t fabric and vents 5120 CFM and will result in full compliance. overed in this application (Construction Permit Application On. December 1, 1988 Completion of Construction June 1, 1989 ontrol system(s): (Note: Show breakdown of estimated costs on ents/units of the project serving pollution control purposes.
This is the primary has 1280 square feet Schedule of project co Start of Construction Costs of pollution con for individual compone Information on actual permit.)	t fabric and vents 5120 CFM and will result in full compliance. overed in this application (Construction Permit Application On December 1, 1988 Completion of Construction June 1, 1989 on trol system(s): (Note: Show breakdown of estimated costs on ents/units of the project serving pollution control purposes. costs shall be furnished with the application for operation
This is the primary has 1280 square feet Schedule of project co Start of Construction Costs of pollution con for individual compone Information on actual permit.)	t fabric and vents 5120 CFM and will result in full compliance. overed in this application (Construction Permit Application On December 1, 1988 Completion of Construction June 1, 1989 on trol system(s): (Note: Show breakdown of estimated costs on ents/units of the project serving pollution control purposes. costs shall be furnished with the application for operation
This is the primary has 1280 square feet Schedule of project co Start of Construction Costs of pollution con for individual compone Information on actual permit.)	t fabric and vents 5120 CFM and will result in full compliance. overed in this application (Construction Permit Application On December 1, 1988 Completion of Construction June 1, 1989 on trol system(s): (Note: Show breakdown of estimated costs on ents/units of the project serving pollution control purposes. costs shall be furnished with the application for operation the installed pollution control equipment = \$60,000.00.
This is the primary has 1280 square feet Schedule of project construction Costs of pollution confor individual componed information on actual permit.) Estimated cost of the square feet any previous	t fabric and vents 5120 CFM and will result in full compliance. overed in this application (Construction Permit Application On December 1, 1988 Completion of Construction June 1, 1989 on trol system(s): (Note: Show breakdown of estimated costs on ents/units of the project serving pollution control purposes. costs shall be furnished with the application for operation

DER Form 17-1.202(1) Effective October 31, 1982

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610

1.27



RECEIVED

NOV 1 1988

ICTORIA J. TSCHINKEL

WILLIAM K. HENNESSEY DISTRICT MANAGER

DER - BAQM

	APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES	
	SOURCE TYPE: Air Pollution [X] New [] Existing [
	APPLICATION TYPE: [X] Construction [] Operation [] Modification	
	COMPANY NAME: Gold Bond Building Products, Division of National COUNTY: Hi	llsborough
	Gypsum Company Identify the specific emission point source(s) addressed in this application Joint Compo	(i.e. Lime
	Joint Compo Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Limestone S	
	SOURCE LOCATION: Street 6110 Commerce Street City Port	
	UTM: East 17-347.3 North 3.082.7	
	Latitude 27 • 52 · "N Longitude 02 • 3	
	APPLICANT NAME AND TITLE: R. G. Moore, Plant Manager	
	APPLICANT ADDRESS: 6110 Commerce Street, P. O. Box 19307, Tampa, FLA 33616	
	SECTION I: STATEMENTS BY APPLICANT AND ENGINEER	
	A. APPLICANT Gold Bond Bui I am the undersigned owner or authorized representative* of Division of N	lding Product ational Gypsu
	Company Cons	truction ?
	I certify that the statements made in this application for a Conspermit are true, correct and complete to the best of my knowledge and be I agree to maintain and operate the pollution control source and pol facilities in such a manner as to comply with the provision of Chapte Statutes, and all the rules and regulations of the department and revision also understand that a permit, if granted by the department, will be not and I will promptly notify the department upon sale or legal transfer of establishment.	lution contr r 403, Flori ons thereof. on-transferab f the permitt
	*Attach"Terror of authorization Signed: 726 Moore	_
Subs	#Attach"Terror of authorization ubscribed and sword to before me this R. G. Moore, Plant Manager Name and Title (Please Type)	
7	Name and Title (Please Type	

BY PROFESSYONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)
This is to certify that the engineering features of this pollution control project have

been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, the

MY COMMISSION EXP JUNE 18. Date: 10-31-88 Telephone No. (813)839-2111

HOTARY PUBLIC STATE OF FLORIDA

BONDED IHRU GENERAL INS. UND.

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)

	maintenance and operation of pollution sources.	· PMOID
		Padamshi H. Chheda
		Wane (Please Type) Gold Bond Building Products, Division of National Gypsum Company
	•	Company Name (Please Type)
		2001 Rexford Road, Charlotte, N. C. 28211 Mailing Address (Please Type)
	rida Registration No. 28433	
. 0		
	SECTION	III: GENERAL PROJECT INFORMATION
•	and expected improvements in whether the project will res necessary.	ent of the project. Refer to pollution control equipment, a source performance as a result of installation. State bult in full compliance. Attach additional sheet if
	This is a limestone supply	bin that will be loaded from trucks or from the Limestone
	Silo. Pneumatic loading a	t 1520 CFM with a 380 square foot Baghouse will result in
	Silo. Pneumatic loading a full compliance.	t 1520 CFM with a 380 square foot Baghouse will result in
		t 1520 CFM with a 380 square foot Baghouse will result in
,	full compliance. Schedule of project covered	in this application (Construction Permit Application Only)
	Schedule of project covered Start of Construction Decem Costs of pollution control a for individual components/un	
•	Schedule of project covered Start of Construction Decem Costs of pollution control a for individual components/un Information on actual costs permit.)	in this application (Construction Permit Application Only) ber 1, 1988
	Schedule of project covered Start of Construction Decem Costs of pollution control a for individual components/un Information on actual costs permit.)	in this application (Construction Permit Application Only) ber 1, 1988 Completion of Construction June 1, 1989 system(s): (Note: Show breakdown of estimated costs only lits of the project serving pollution control purposes. shall be furnished with the application for operation
	Schedule of project covered Start of Construction Decem Costs of pollution control a for individual components/un Information on actual costs permit.)	in this application (Construction Permit Application Only) ber 1, 1988 Completion of Construction June 1, 1989 system(s): (Note: Show breakdown of estimated costs only lits of the project serving pollution control purposes. shall be furnished with the application for operation
	Schedule of project covered Start of Construction Decem Costs of pollution control a for individual components/un Information on actual costs permit.)	in this application (Construction Permit Application Only) ber 1, 1988
	Schedule of project covered Start of Construction Decem Costs of pollution control a for individual components/un Information on actual costs permit.) Estimated cost of installe Indicate any previous DER pe point, including permit issue	in this application (Construction Permit Application Unly) ber 1, 1988
	Schedule of project covered Start of Construction Decem Costs of pollution control a for individual components/un Information on actual costs permit.) Estimated cost of installe	in this application (Construction Permit Application Only) ber 1, 1988

Page 2 of 12

CONFIDENTIAL

AC29-156224

\$ 200 pd, 10-17-88 Puft.#117578 117579

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



RECEIVED

BOB GRAHAM

OCT 1 7 1988

VICTORIA J. TSCHINKEL SECRETARY

WILLIAM K. HENNESSEY DISTRICT MANAGER

DER - BAQM

	Dru avam
	APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES
SOURCE TYPE: _	Air Pollution [X] New [] Existing 1
APPLICATION TYP	E: [X] Construction [] Operation [] Modification
	Gold Bond Building Products, Division of National COUNTY: Hillsborough
Identify the sp	Gypsum Company ecific emission point source(s) addressed in this application (i.e. Lime Joint Compound Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Limestone Supply Bin
SOURCE LOCATION	: Street 6110 Commerce Street City Port Tampa
	UTM: East 17-347.3 North 3.082.7
APPLICANT NAME	Latitude 27 ° 52 ' ''N Longitude 02 ° 33 ' ''W AND TITLE: R. G. Moore, Plant Manager
•	ss: 6110 Commerce Street, P. O. Box 19307, Tampa, FLA 33616
	SECTION I: STATEMENTS BY APPLICANT AND ENGINEER
I certify t permit are	Gold Bond Building Products dersigned owner or authorized representative* of Division of National Gypsum Company Company Construction true, correct and complete to the best of my knowledge and belief. Further,
facilities Statutes, a also unders	maintain and operate the pollution control source and pollution control in such a manner as to comply with the provision of Chapter 403, Florida and all the rules and regulations of the department and revisions thereof. It tand that a permit, if granted by the department, will be non-transferable promptly notify the department upon sale or legal transfer of the permitted

*Attach letter of authorization

establishment.

R. G. Moore, Plant Manager

Name and Title (Please Type)

Date: 10-11-86 Telephone No. (813)839-2111

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

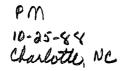
DER Form 17-1.202(1) Effective October 31, 1982

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)

an effluent that complies rules and regulations of furnish, if authorized by	ilities, when properly maintained and operated, will dischar with all applicable atatutes of the State of Florida and the the department. It is also agreed that the undersigned will the owner, the applicant a set of instructions for the prop of the pollution control facilities and, if applicable,
William Million Manufacture of the Control of the C	Signed
S	Padamshi H. Chheda
NATE OF THE PARTY	Name (Please Type) Gold Bond Building Products, Division of National Gypsum Company
	Company Name (Please Type)
ER & VO Range	2001 Rexford Road, Charlotte, N. C. 28211
"Manganana"	Mailing Address (Please Type)
ida Registration No. 28	433 Date: 10/10/88 Telephone No. (704)365-7238
SECT	ION II: GENERAL PROJECT INFORMATION
and expected improvements whether the project will necessary.	extent of the project. Refer to pollution control equipment in source performance as a result of installation. State result in full compliance. Attach additional sheet if
This is a limostone sun	-1. Lie +be+ .fll be leaded from trucks or trom the limestone
IIIIS IS a IIIIlescone sup	ply bin that will be loaded from trucks of from the Elmestone
	g at 1520 CFM with a 380 square foot Baghouse will result in
Silo. Pneumatic loadin	
Silo. Pneumatic loading full compliance. Schedule of project cover	ed in this application (Construction Permit Application Onl
Silo. Preumatic loading full compliance. Schedule of project cover Start of Construction De Costs of pollution controfor individual components Information on actual cospermit.)	ed in this application (Construction Permit Application Onlocember 1, 1988 Completion of Construction June 1, 1989 System(s): (Note: Show breakdown of estimated costs onlocuits of the project serving pollution control purposes. ts shall be furnished with the application for operation
Silo. Preumatic loading full compliance. Schedule of project cover Start of Construction De Costs of pollution controfor individual components Information on actual cospermit.)	ed in this application (Construction Permit Application Onlocember 1, 1988 Completion of Construction June 1, 1989 I system(s): (Note: Show breakdown of estimated costs onlocemits of the project serving pollution control purposes.
Silo. Preumatic loading full compliance. Schedule of project cover Start of Construction De Costs of pollution controfor individual components Information on actual cospermit.)	g at 1520 CFM with a 380 square foot Baghouse will result in ed in this application (Construction Permit Application Only cember 1, 1988 Completion of Construction June 1, 1989 of system(s): (Note: Show breakdown of estimated costs only Junits of the project serving pollution control purposes. ts shall be furnished with the application for operation
Silo. Preumatic loading full compliance. Schedule of project cover Start of Construction De Costs of pollution controfor individual components Information on actual cospermit.)	g at 1520 CFM with a 380 square foot Baghouse will result in ed in this application (Construction Permit Application Only cember 1, 1988 Completion of Construction June 1, 1989 of system(s): (Note: Show breakdown of estimated costs only Junits of the project serving pollution control purposes. ts shall be furnished with the application for operation
Silo. Preumatic loading full compliance. Schedule of project cover Start of Construction De Costs of pollution controfor individual components Information on actual cospermit.)	ed in this application (Construction Permit Application Onlocember 1, 1988 Completion of Construction June 1, 1989 System(s): (Note: Show breakdown of estimated costs onlocuits of the project serving pollution control purposes. ts shall be furnished with the application for operation
Silo. Pneumatic loading full compliance. Schedule of project cover Start of Construction De Costs of pollution controfor individual components Information on actual cospermit.) Estimated cost of insta	ed in this application (Construction Permit Application Only cember 1, 1988 Completion of Construction June 1, 1989 of system(s): (Note: Show breakdown of estimated costs only Junits of the project serving pollution control purposes. ts shall be furnished with the application for operation

Page 2 of 12

DER Form 17-1.202(1) Effective October 31, 1982





RECEIVED

OCT 28 1988

October 24, 1988

DER - BAQM

Florida Department of Environmental Regulations Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Fla 32399-2400

Attn: Mr. W. A. Thomas

Dear Mr. Thomas:

Please add the attached Section V to the Construction Application for the Polystyrene Feed Hopper.

If you have any questions, please call.

Sincerely,

D. B. Collins

Environmental Engineer

DBC/mmm attachment.

copied: Mile Harley
Bill shomas, SW Dist.
Art Hells, HCEPC

Gold Bond Building Products 2001 Rexford Road Charlotte, North Carolina 28211





A National Gypsum Division

Florida Department of Environmental Regulations Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Fla 32399-2400

Attn: Mr. W. A. Thomas

Address Correction Requested

hallandalahalahandalahallandalah

SECTION V POLYSTYRENE FEED HOPPER

1. Process Rate

40 LBS/HR

2. Controlled Emissions Estimate

.03 GRS/DSCF x 360 DSCFM x 60 + 7000 = 0.09 LBS/HR. TONS/YR = .09#/HR x 8736 HRS + 2000 = 0.40 T/YR

3. Uncontrolled Potential Emissions Estimate

Estimated inlet grain loading = 10 GRS/DSCF 10 GRS/DSCF x 360 DSCFM x $60 \div 7000 =$ 30.8 LBS/HR. TONS/YR = 30.8 #/HR x 8736 HRS \div 2000 = 134.5 TONS/YR

- 4. Baghouse Air/Cloth Ratio = 360/90 = 4.0:1
- 5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.
- 6. Flow chart attached.
- 7. Plot plan (plant location) attached.
- 8. Plot plan (equipment location) attached.
- 9. Application Fees: \$365 County Attached \$100 State

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION RECEIVED

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610



GOVERNOR

OCT 27 1988

SECRETARY

WILLIAM K. HENNESSEY DISTRICT MANAGER

DER-BAOM

APPLICATION TO OPERATE/	CONSTRUCT AIR POLLUTION SOURCES
SOURCE TYPE: Air Pollution	[X] New ¹ [] Existing ¹
APPLICATION TYPE: [X] Construction []	Operation [] Modification
	county: Hillsborough
Gypsum Company Identify the specific emission point sour Kiln No. 4 with Venturi Scrubber; Peaking	ce(s) addressed in this application (i.e. Lime Joint Compound Unit No. 2, Gas Fired) Wet Mixer
SOURCE LOCATION: Street 6110 Commerce S	
UTM: East 17-347.3	North 3.082.7
Latitude 27° 52'	"N Longitude 02 ° 33 ''W
APPLICANT NAME AND TITLE: R. G. Moore, P	lant Manager
APPLICANT ADDRESS: 6110 Commerce Street,	P. O. Box 19307, Tampa, FLA 33616
SECTION I: STATEMEN	TS BY APPLICANT AND ENGINEER *
A. APPLICANT I am the undersigned owner or authori	Gold Bond Building Products zed representative* of Division of National Gypsum
I certify that the statements made in permit are true, correct and complete I agree to maintain and operate the facilities in such a manner as to constitutes, and all the rules and regulate also understand that a permit, if grant statements are statements.	this application for a Company Construction to the best of my knowledge and belief. Further pollution control source and pollution control omply with the provision of Chapter 403, Florid ations of the department and revisions thereof. anted by the department, will be non-transferable ment upon sale or legal transfer of the permitter
*Attach letter of authorization	Signed: RGMore
	R. G. Moore, Plant Manager
And the second s	Name and Title (Please Type)
	Date: 10-11-8 Telephone No. (813)839-2111
B. PROFESSIONAL ENGINEER REGISTERED IN F	LORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project hav been designed/examined by me and found to be in conformity with modern engineerin principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

rules and regulations of the furnish, if authorized by the	ties, when properly maintained and operated, will discharge the state of Florida and the state of Florida and the department. It is also agreed that the undersigned will so owner, the applicant a set of instructions for the proper the pollution control facilities and, if applicable,
pollution sources.	
. ****** •	Signed PHC Charles
* .	31giled
•	Padamshi H. Chheda
	Name (Please Type) Gold Bond Building Products, Division of Natio Gypsum Company
•	Company Name (Please Type)
	2001 Rexford Road, Charlotte, N. C. 28211
-	
rida Registration No. 28433	Mailing Address (Please Type) Date: 10/10/85 Telephone No. (704)365-7238
5.	II: GENERAL PROJECT INFORMATION
Polystyrene "peanuts" are gr	round and air conveyed with 360 CFM air to a holding bin
with a 90 square foot Baghou	use which will result in full compliance.
Schedule of project covered i	n this application (Construction Permit Application Only
•	in this application (Construction Permit Application Only er 1, 1988 Completion of Construction June 1, 1989
Start of Construction December Costs of pollution control sy for individual components/uni	er 1, 1988 Completion of Construction June 1, 1989
Start of Construction December Costs of pollution control sy for individual components/uni Information on actual costs s	er 1, 1988 Completion of Construction June 1, 1989 stem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. That is the specific for operation.
Start of Construction December Costs of pollution control sy for individual components/uni Information on actual costs spermit.)	er 1, 1988 Completion of Construction June 1, 1989 stem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. The shall be furnished with the application for operation
Start of Construction December Costs of pollution control sy for individual components/uni Information on actual costs spermit.)	er 1, 1988 Completion of Construction June 1, 1989 stem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. The shall be furnished with the application for operation
Start of Construction December Costs of pollution control sy for individual components/uni Information on actual costs spermit.)	er 1, 1988 Completion of Construction June 1, 1989 stem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. The shall be furnished with the application for operation
Start of Construction December Costs of pollution control sy for individual components/uni Information on actual costs spermit.)	er 1, 1988 Completion of Construction June 1, 1989 stem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. The shall be furnished with the application for operation
Start of Construction December Costs of pollution control sy for individual components/uni Information on actual costs spermit.)	stem(s): (Note: Show breakdown of estimated costs only ts of the project serving pollution control purposes. shall be furnished with the application for operation
Start of Construction December Costs of pollution control sy for individual components/uni Information on actual costs s permit.) Estimated cost of installed Indicate any previous DER per point, including permit issue	er 1, 1988 completion of Construction June 1, 1989 estem(s): (Note: Show breakdown of estimated costs only its of the project serving pollution control purposes. Thall be furnished with the application for operation dust control = \$15,000.00.
Start of Construction December Costs of pollution control sy for individual components/uni Information on actual costs s permit.) Estimated cost of installed Indicate any previous DER per	er 1, 1988
Start of Construction December Costs of pollution control sy for individual components/uni Information on actual costs s permit.) Estimated cost of installed Indicate any previous DER per point, including permit issue	er 1, 1988

	(f this is a new source or major modification, answer the following quest			
1.	Is this source in a non-attainment area for a particular pollutant?	Yes		
	a. If yes, has "offset" been applied?	No		
	b. If yes, has "Lowest Achievable Emission Rate" been applied?	No		
	c. If yes, list non-attainment pollutants. Particulate			
2.	Does best available control technology (BACT) apply to this source? If yes, see Section VI.	No		
3.	Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	No		
4.	Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	No		
5.	Do "National Emisaion Standards for Hazardoua Air Pollutants" (NESHAP) apply to this source?	No		
	"Ressonably Available Control Technology" (RACT) requirements apply this source?	Yes		
	a. If yea, for what pollutants? Particulate			

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

See Attached List. Wet Mixing & Dry Mixing

	Contam	inants	Utilization		
Description	Туре	% Wt	Rate - lbs/hr	Relate to Flow Diagram	
San					
· · · · · · · · · · · · · · · · · · ·					

В.	Process	Rate,	if	applicable:	(See	Section	٧,	Item	1)
----	---------	-------	----	-------------	------	---------	----	------	----

							42 200
1.	Total	Process	Inout	Rate	(lbs/hr)	:	12,300

2	Product	Weight	(lbs/hr):	12,300
∠.	Product	MOTONE	/ TD8/111/12	, = , = =

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Em Name of		ionl	Allowed ² Emission Rate per	Allowable ³ Emission	Potent: Emissi		Relate to flow
Contaminant	Maximum 1bs/hr	Actual T/yr	Rule 17-2	lbs/hr	1bs/wxHr	T/yr	Diagram
Particulates	1.3	5.68	N/A	N/A	878	3834	See Chart
				_			
							

¹See Section V, Item 2.

²Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard.

⁴Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	dame and Type Contaminant lel & Serial No.)		Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Flex-Kleen #	_			
84-RA-128 KD	Particulate	99%+	Unknown	Estimate
	·			
				·

E. Fuels N/A

	Consump		
Type (Be Specific)	avq/hr	max./hr	Maximum Heat Input (MMBTU/hr)
		<u> </u>	·

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Tura I	Anal	veie.	N/A
. ne t	AUST	1818:	11/7

Percent Sulfur:		Percent Ash:	
Density:	lbs/gal	Typical Percent Nitrogen:	
Heat Capacity:	BTU/1b		
Other Fuel Contaminants (which ma	 _	-11.441.	
Denet Last concaminance (william	iy cause air p	011001017:	
F. If applicable, indicate the p		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·	percent of fue	· · · · · · · · · · · · · · · · · · ·	

	ht:		45		ft.	Stac	k Diamet	er:18"(<u>) </u>
as Flow R								perature:	
later Vapo	r Conten	t:	Ambien	t	_ %	Velo	city:	48.	
								ION N/	
Type of Waste	Type (Plasti) es)	Type I (Rubbish)	Type II (Refuse)	Type (Garbs	III ige) (Type IV Patholog ical)	(Liq.& Gas	Type VI (Solid By-prod.
Actual lb/hr Inciner- ated									
Uncon- trolled (lbs/hr)				,					· .
escriptio	n of Was	te _	,						
ctal Weig	ht Incin	of I	ed (lbs/hi	r)		D			hr)wks/yr
ctal Weig pproximat	ht Incin	of I	ed (lbs/h	r)	per da	D	day	/wk	
ctal Weig pproximat	ht Incin	of I	ed (lbs/h	Dperation	per da	Diy	day	/wk	wks/yr
ctal Weig pproximat	ht Incin e Number er ructed	of I	ed (lbs/hi	Dperation	per da	IY	day	/wk	wks/yr
otal Weig opproximat Manufactur Date Const	ht Incin e Number er ructed	of I	ed (lbs/hi	Dperation	per da	IY	day	/wk	wks/yr
otal Weig pproximat anufactur ate Const Primsry C Secondary	ht Incin e Number er ructed hamber Chamber	of i	ed (lbs/hi	Heat R	per da Mod elease	Jel No	Fue	l BTU/hr	wks/yr
otal Weig pproximat anufactur ate Const Primsry C Secondary	ht Incin e Number er ructed hamber Chamber	of I	Volume (ft) 3	Heat R (BTU	per da Mod elease /hr)	Jel No	Fue	l BTU/hr	Temperature (°F)
otal Weig approximat anufactur ate Const Primary C Secondary atack Heig as Flow R	ht Incin e Number er ructed hamber Chamber ht: ate:	of I	Volume (ft) 3	Heat R (BTU	per da Mod elease /hr) mter: _	del No	Fue	The stack of the s	Temperature (°F)

DER Form 17-1.202(1) Effective November 30, 1982

Brief description of opera	ting characteristics of contr	ol devices:
Jet-Pulse Bagho	use	
·		
ultimate disposal of any e ash, etc.): All collected materi		ed from the stack (scrubber water,
•		

المرافقة والمرافقة المرافقة ا المرافقة ال

SECTION V: SUPPLEMENTAL REQUIREMENTS Attached

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methoda used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
- 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where aclid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of air-borne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An B $1/2^n \times 11^n$ plot plan of facility showing the location of manufacturing processes and outlets for sirborne emissions. Relate all flows to the flow diagram.

DER Form 17-1.202(1) Effective November 30, 1982

9.	The appropriate application fee in accormade payable to the Department of Environ	dance with Rule 17-4.05. The check should be nmental Regulation.
10.	With an application for operation permit struction indicating that the source w permit.	t, attach a Certificate of Completion of Con- as constructed as shown in the construction
	SECTION VI: BEST AVAIL	LABLE CONTROL TECHNOLOGY N/A
A.	Are standards of performance for new sta applicable to the source?	tionary sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Contaminant	Rate or Concentration
В.	Has EPA declared the best available contyes, attach copy)	trol technology for this class of sources (I
·	[] Yes [] No	
	Contaminant	Rate or Concentration
	<u> </u>	
	•	
c.	What emission levels do you propose as be	est available control technology?
	Contaminant	Rate or Concentration
D.	Describe the existing control and treatme	ent technology (if any).
-	1. Control Device/System:	2. Operating Principlea:
	3. Efficiency:*	4. Capital Costs:
*Ex	plain method of determining	
	Form 17-1.202(1) ective November 30, 1982 Page	8 of 12

N/A Useful Life: Operating Costs: 7. Energy: Maintenance Cost: Emissions: Contaminant Rate or Concentration 10. Stack Parameters ft. ft. Height: Diameter: c. Flow Rate: ACFM d. OF. Temperature: FPS Velocity: Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). 1. Control Device: Operating Principles: Efficiency:1 Capital Cost: f. Operating Coat: Useful Life: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 2. Operating Principles: Control Device: Efficiency: 1 Capital Cost: **Uaeful Life:** f. Operating Cost: Maintenance Cost: Energy: 2 Availability of construction materials and process chemicals: $^{\mathrm{l}}$ Explain method of determining efficiency. $^{\mathbf{Z}}$ Energy to be reported in units of electrical power – KWH design rate.

j.	Applicability to manufacturing proc	esaes:	N/A		
k.	Ability to construct with control within proposed levels:	device	, install in available s	pace, and	operate
3.					
٤.	Control Device:	b.	Operating Principles:		
· c .	Efficiency: 1	d.	Capital Coat:		
٠.	Useful Life:	f.	Operating Cost:		
g.	Energy: ²	h.	Maintenance Cost:		
i.	Availability of conatruction materi	als an	d process chemicals:		
j.	Applicability to manufacturing proc	esses:			•
k.	Ability to construct with control within proposed levels:	device	, install in available s	pace, and	operate
4.			,		
а.	Control Device:	ь.	Operating Principles:		
c.	Efficiency: 1	d.	Capital Costs:		
e.	Useful Life:	f.	Operating Cost:		
g.	Energy: ²	h.	Maintenance Cost:		
i.	Availability of construction materi	als an	d process chemicals:		
j.	Applicability to manufacturing proc	e 88 e 8:			
k.	Ability to construct with control within proposed levels:	device	, install in available s	pace, and	operate
Dea	cribe the control technology selecte	d:	•		
1.	Control Device:	. 2.	Efficiency:1		
3.	Capital Cost:	4.	Useful Life:		
5.	Operating Cost:	6.	Energy: 2		. •
7.	Maintenance Cost:	8.	Manufacturer:	·	
9.	Other locations where employed on s	imilar	processes:		
8.	(1) Company:		•.		
(2)	Mailing Address:				
	City:	(A)	State:		

DER Form 17-1.202(1) Effective November 30, 1982

(5) Environmental Manager:	N/A
(6) Telephone No.:	
(7) Emissions: 1	
Contaminant	Rate or Concentration
(8) Process Rate: 1	
b. (1) Company:	
(2) Mailing Address:	
(3) City:	(4) State:
(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Contaminant	Rate or Concentration
(B) Process Rate: 1	
10. Reason for selection and d	description of systems:
Applicant must provide this infor available, applicant must state the	ne reaeon(s) why.
	REVENTION OF SIGNIFICANT DETERIORATION N/A
A. Company Monitored Data	
1no. sites	TSP () 50 ² * Wind spd/dir
	month day year month day year
Attach all data or statistical	
*Specify bubbler (B) or continuous	(c).
DER form 17-1.202(1) Effective November 30, 1982	Page 11 of 12

	2. Instrumentation, Field and Laboratory	N/A
	a. Was instrumentation EPA referenced or	its equivalent? [] Yes [] No
	b. Was instrumentation calibrated in acco	ordance with Department procedures?
	[] Yes [] No [] Unknown	
3.	Meteorological Data Used for Air Quality	fodeling
	1Year(s) of data from/	/ to / / year month day year
	2. Surface data obtained from (location)	
	3. Upper air (mixing height) data obtain	ed from (location)
	4. Stability wind rose (STAR) data obtain	ed from (location)
:.	Computer Models Used	
	1.	Modified? If yes, attach description.
	2	Modified? If yes, attach description.
	3.	Modified? If yes, attach description.
	4	Modified? If yes, attach description.
	Attach copies of all final model runs shou	ing input data, receptor locations, and prin
٠.	Applicants Maximum Allowable Emission Data	· ;
	Pollutant Emission Rate	•
	TSP	grams/sec
	S0 ²	grams/aec
	Emission Data Used in Modeling	

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

- F. Attach all other information supportive to the PSD review.
- G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.
- H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

SECTION V JOINT COMPOUND MAIN DUST COLLECTOR

1. Process Rate

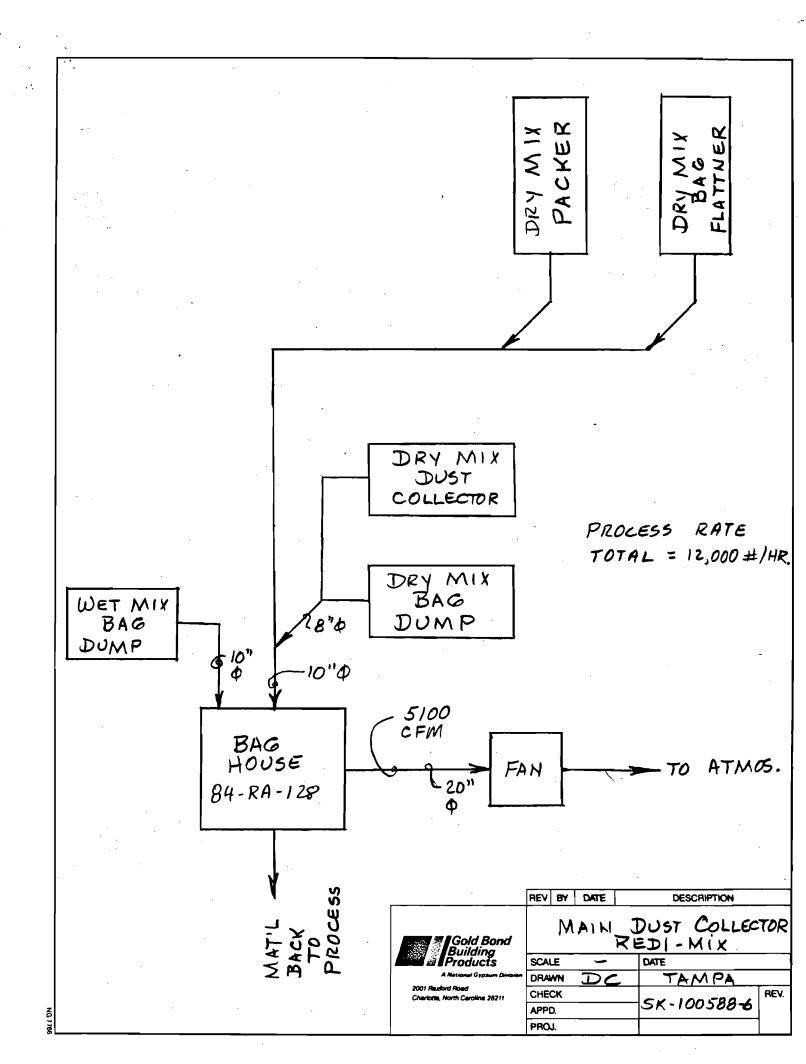
2. Controlled Emissions Estimate

3. Uncontrolled Potential Emissions Estimate

Estimated inlet grain loading = 20 GRS/DSCF 20 GRS/DSCF x 5120 DSCFM x $60 \div 7000 = 878 \text{ LBS/HR}$.

TONS/YR = 878#/HR x 8736 HRS \div 2000 = 3834 TONS/YR

- 4. Baghouse Air/Cloth Ratio = 5120/1280 = 4.0:1
- 5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.
- 6. Flow chart attached.
- 7. Plot plan (plant location) attached.
- 8. Plot plan (equipment location) attached.
- 9. Application Fees: \$365 County Attached \$100 State



WR Series offers excellent filtration efficiency — for product recovery systems, large bin venting applications and general nuisance dust collection.

Advantages

The WR Series of welded pulse jet dust collectors offers:

- Easy installation
- Depending on size, unit may be shipped completely assembled. Or, welded sections are shop assembled for quick and easy field erection, low field labor costs.
- Quick-mounting air headers
 In most cases, compressed air headers are shipped
 pre-wired and pre-piped, ready to mount.
- Low operating costs
- Timer reduces energy costs

Adjustable timer maintains low pressure drop, with minimum compressed air consumption. Energy costs are reduced.

- Differential pressure gauge
 Supplied as a standard item to evaluate collector operation and optimize bag cleaning capacity.
- Minimum maintenance

No internal moving parts. Interior maintenance is greatly reduced. Collector shut-down is minimized.

Quick bag replacement

Bag and cage are designed to attach easily, permitting quick bag replacement.

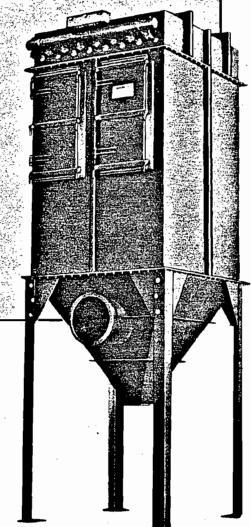
Features

- Models available with bottom and top bag removal.
- Durable construction of welded 12 gauge hot rolled steel.
- Flanged air inlet, outlet and flanged dust discharge.
- 20" diameter top access port(s) to clean air plenum.
- Heavy gauge, cast aluminum venturis.
- Heavy duty, smooth wire cages.
- NEMA 4 (weathertight) electricals.
- Corner saddle supports through 96 bag size.
- Six inch girth channel for continuous support – on sizes larger than 96 bags.
- Weatherproof walk-in clean air plenum (applies to top bag

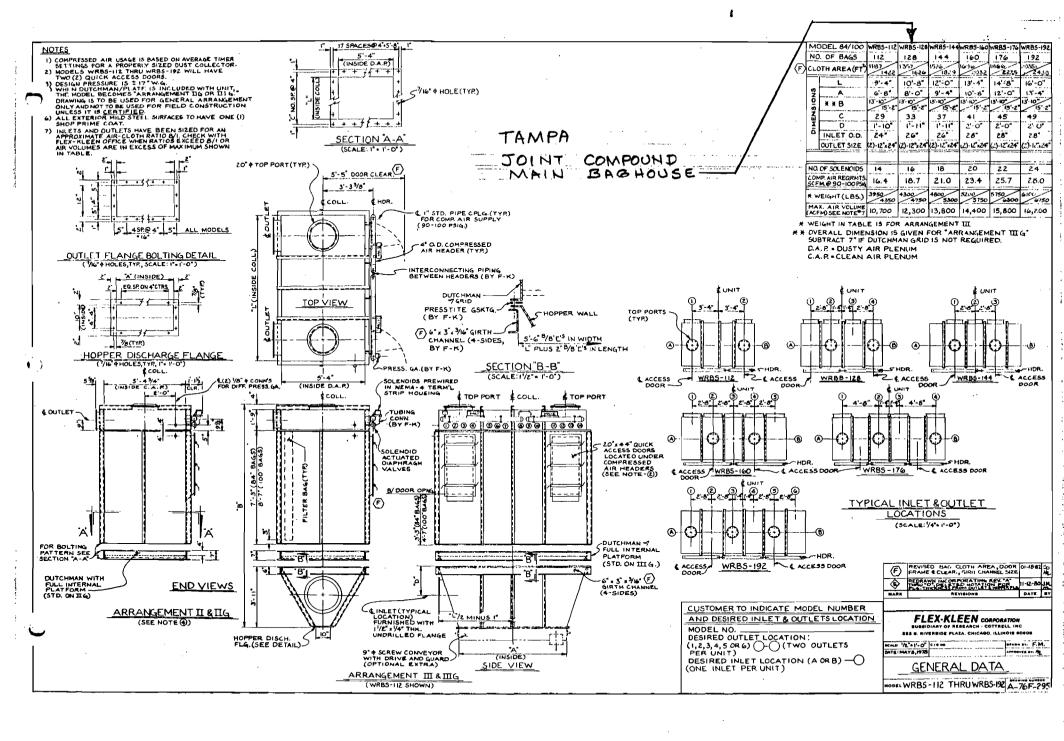
- removal only).
- Differential pressure and air header gauges.
- Door sills have built-in 45° slopes.

Options

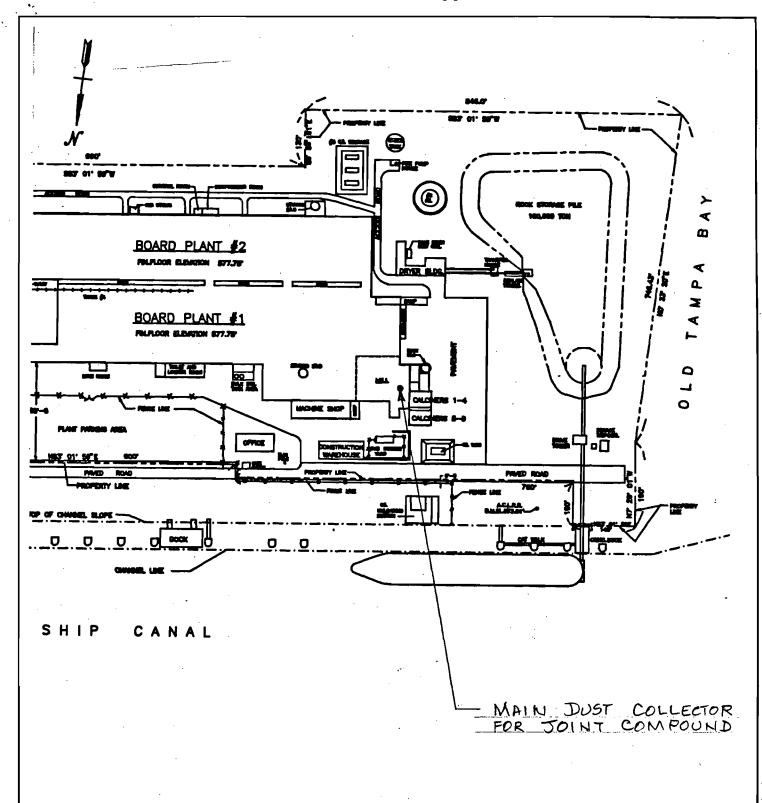
- Top bag removal with lift-off doors or walk-in plenum.
- Bag cages epoxy coated or 304SS.
- Wide range of interior coatings.
- Electrical components rated for hazardous service.
- Inlet baffle with target plate.
- Full internal service grid.
- Standard legs.
- Standard exterior access platform.



- Quick release bag clamp (bottom bag removal only).
- High efficiency filter bags, in a variety of materials.

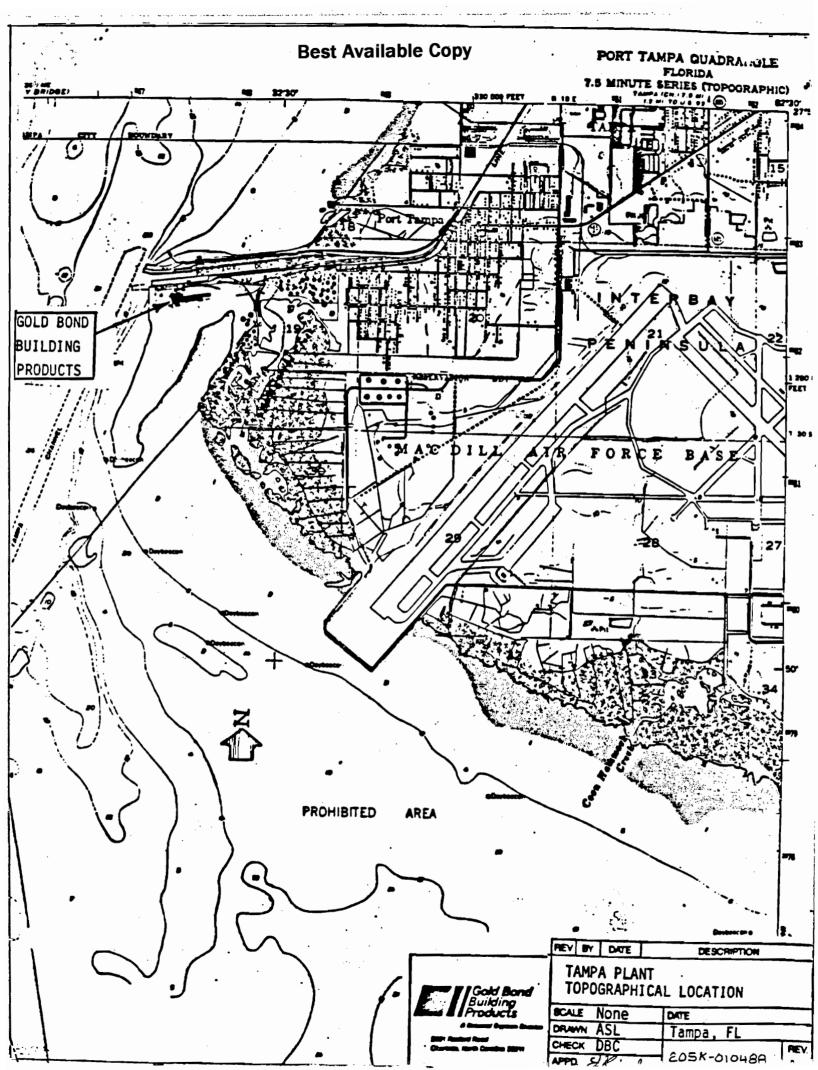


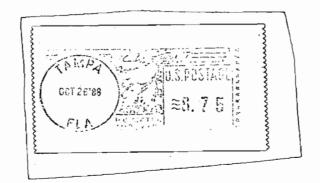
Best Available Copy



	REV	BY	DATE	DESCRIPTION
	T.E.V		014	
Gold Bond Building			MALA	
Products	SCA	UE .		DATE
A National Gypsum Division	DRA	MN	DC	TAMPA
2001 Rextord Road Charlotte, North Caroline 26211	CHE	CK		SK-100788-2 REV.
	APP	D.		9K-100180-2
	PRO	J	•	

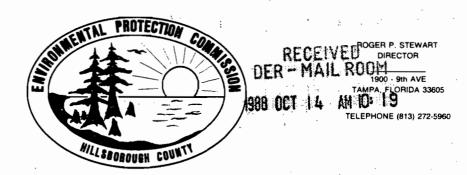
ž





E Sor Postal Use		DESTINATION Date of Delivery Employee Wignature of Addressee or Agent: Date Date Date Time: AM P.M. Notice Left By: ADDRESSEE'S COPY
For Customer Use	GOLD COLD EDILDING PRODUCTS POST OFFICE DON 19207 TATPA: FLOXIDA 33586 Label II-B (Sept. 1985) * U.S.G.P.O1985-480-021	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION THIN TONIERS OFFICE BLDG. 2500 BLAIR STONE ROSD TALANASSEL, FL. 32399-2400 ATTENTION: BILL THUSS

COMMISSION
RODNEY COLSON
PAM IORIO
RUBIN E. PADGETT
JAN KAMINIS PLATT
HAVEN POE
JAMES D. SELVEY
PICKENS C. TALLEY II



RECEIVED

MEMORANDUM

OCT 14 1988

DATE:

October 12, 1988.

DER BAQM

TO:

Bill Thomas, CAPS

FROM:

Art Wells, EPC/HC AW

SUBJECT:

Gold Bond Building Products, 7 Construction Permit

Applications

Enclosed for your review are seven construction permit applications and a check for \$700 from Gold Bond Building Products. These are minor construction applications at an A-1 facility. As the permit engineer assigned the applications, I will concurrently review them and will be in contact with the CAPS engineer to set completeness deadlines dates. Please note that the fee submitted by Gold Bond is incorrect.

If you need to contact me please call Suncom 543-5530.

DEPARTMENT OF ENVIRONMENTAL REGULATION

:	ROUTING AND	ACTION	NO .
1 7 1/1	TRANSMITTAL SLIP	ACTION (DUE DATE
IVE	1. TO: (NAME, OFFICE, LOCATION)		Initial
उद्धा	\mathcal{R} :11		Date
26.57.3	2.		Initial
WO			Date
	3.		Initial
			Date
	4.		Initial
	•		Date
	REMARKS:	INF	ORMATION
	new application	Rev	iew & Return
		Rev	iew & File
	New application Received date is	Init	ial & Forward
	Received date is 10/17/8% since that a when the fee was received (by 5W Dist)		
	that's when the	DIS	SPOSITION
	secured	Rev	iew & Respond
	fle was	Prep	pare Response
;	(1 × 11) (Oist)	For	My Signature
	(by 300 2000)	For	Your Signature
		Let	s Discuss
		Set	Up Meeting
		Inve	estigate & Report
			ial & Forward
;		Dist	ribute
,		ļ	currence
			Processing
			al & Return
	FROM:	DATE	
:	Patter	PHONE	

COMMISSION
RODNEY COLSON
PAM IORIO
RUBIN E. PADGETT
JAN KAMINIS PLATT
HAVEN POE
JAMES D. SELVEY
PICKENS C. TALLEY II



MEMORANDUM

DATE:

October 12, 1988

TO:

Bill Thomas, CAPS

AIR QUALITY

FROM:

Art Wells, EPC/HC AW

SUBJECT:

Gold Bond Building Products, 7 Construction Permit

Applications

Enclosed for your review are seven construction permit applications and a check for \$700 from Gold Bond Building Products. These are minor construction applications at an A-1 facility. As the permit engineer assigned the applications, I will concurrently review them and will be in contact with the CAPS engineer to set completeness deadlines dates. Please note that the fee submitted by Gold Bond is incorrect.

If you need to contact me please call Suncom 543-5530.



075326



A National Gypsum Division Charlotte, NC 28211

AMOUNT OF CHECK

\$700**.**00

'AYTOTHE Florida Department of Environmental ORDER OF Protection

Protection

Twin Towers Office Bldg.

2600 Blair Stone Road

Tallahassee, FL 32399-2400

OPERATING ACCOUNT NORTH CAROLINA NATIONAL BANK Asheville, NC 28802

704-365-0950



Gold Bond Building Products

2001 Rexford Road Charlotte, NC 28211

REMITTANCE ADVICE- DETACH AND RETAIN

CHECK NO. 075326
DATE 10/10/88

O.NO. DOCUMENT NO. DATE **GROSS AMOUNT** DISCOUNT NET AMOUNT \$700.00 7 Permit Applications @ \$100.00 \$700.00 ROUTE TO: **TOTALS** -2147 REV. 11-80



A National Gypsum Division Charlotte, NC 28211 DATE 10/10/88

66-798 531

075328

AMOUNT OF CHECK

\$2,555.00

PAY TO THE ORDER OF Environmental Protection Commission of Hillsborough County 1410 N. 21st Street Tampa, FL 33605

OPERATING ACCOUNT NORTH CAROLINA NATIONAL BANK Asheville, NC 28802



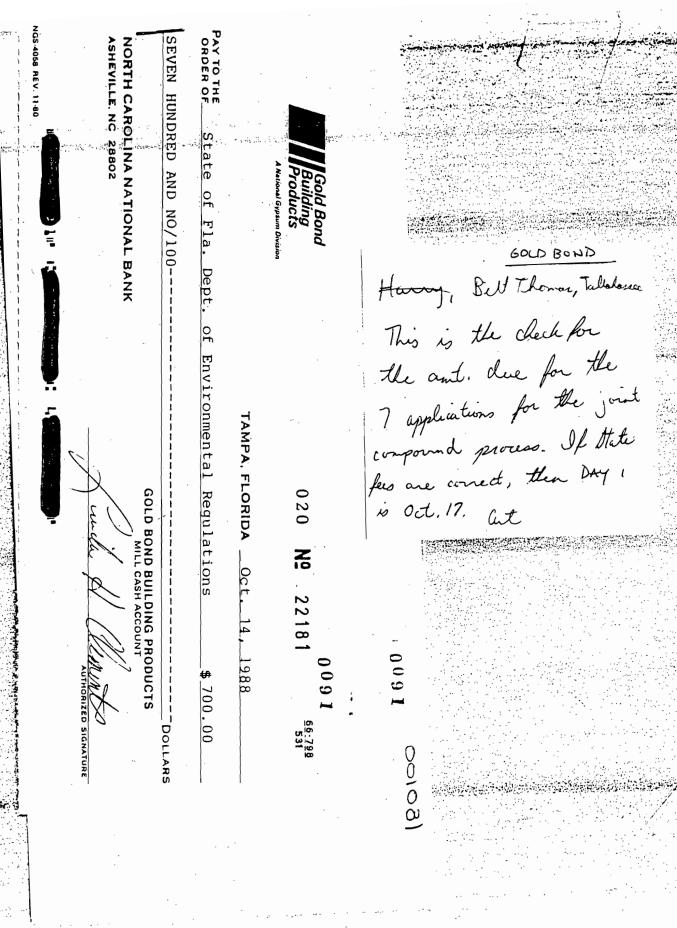
Gold Bond Building Products

2001 Rexford Road Charlotte, NC 28211 REMITTANCE ADVICE- DETACH AND RETAIN

704-365-0950

 $_{\text{DATE}}^{\text{CHECK NO.}} \underset{\text{10/10/88}}{\text{75328}}$

	A National Gypsum Division			5,112 = -, = -, = -		
VO.NO.	DOCU	MENT NO.	DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
	7 Permit	application	s @ \$365.	00		\$2,555.00
		·				
						\$2,555.00
	OUTE TO: EV. 11-80		TOTALS		,	72,333.00





RECEIVED

OCT 17 1988

October 10, 1988

DER-BAQM

Environmental Protection Commission of Hillsborough County 1410 N. 21st Street Tampa, FLA 33605

Subject: Joint Compound Process

Gentlemen:

We plan to install a joint compound process at our Port Tampa Facility. There will be seven dust control systems each using a "jet-pulse" baghouse.

Attached are five copies each of the applications for construction permits for these seven pollution control systems.

Also attached are:

- 1. A re-cap list of controlled particulate emissions.
- 2. Copies of (25) Material Safety Data Sheets of the raw materials used in this process.
- 3. A check for \$2,555 made out to Hillsborough County EPC.
- 4. A check for \$700 made out to Florida DER.

If you have any questions, please call.

Very truly yours,

Ramore

R. G. Moore Plant Manager

RGM/mmm attachments

cc: P. H. Chheda
Director of Engineering

GOLD BOND BUILDING PRODUCTS TAMPA "JOINT COMPOUND"

RE-CAP OF CONTROLLED PARTICULATE EMISSIONS

			LBS/HR	TONS/YR
System #1	Limestone Silo		.60	1.09
System #2	Polystyrene Storage Bin .	•. •	.09	.40
System #3	Polystyrene Feed Hopper .		.09	.40
System #4	Dry Mixing		.18	.78
System #5	Wet Mixing	•	.18	.78
System #6	Main Dust Collector	•	1.3	5.68
System #7	Limestone Supply Bin	• . •	. 4	1.75
	ТОТА	L	2.84	10.88



RECEIVED

OCT 12 1988

October 10, 1988

DER - BAQM

Environmental Protection Commission of RECEIVED.

1410 N. 21st Street Tampa, FLA 33605

ÖĞT 17 1988

Subject: Joint Compound Process

DER-BAQM

Gentlemen:

We plan to install a joint compound process at our Port Tampa Facility. There will be seven dust control systems each using a "jet-pulse" baghouse.

Attached are five copies each of the applications for construction permits for these seven pollution control systems.

Also attached are:

- 1. A re-cap list of controlled particulate emissions.
- 2. Copies of (25) Material Safety Data Sheets of the raw materials used in this process.
- 3. A check for \$2,555 made out to Hillsborough County EPC.
- 4. A check for \$700 made out to Florida DER.

If you have any questions, please call.

Very truly yours,

R Ghrone

R. G. Moore Plant Manager

RGM/mmm attachments

cc: P. H. Chheda
Director of Engineering