P 274 007 595

RECEIPT FOR CERTIFIED MAIL

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

Sent to Mr. R. G. Moore, Gold Bond Bldg. Prod.	
Street and No. P.O. Box 19307	
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 Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date Mailed: 2-21-89 Permit: AC 29-156217, -18, -19, -20, -21, -23, -24	

PS Form 3800, June 1985 ★ U.S.G.P.O. 1985-480-794

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.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)* 2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

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

4. Article Number
P 274 007 595

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

6. Signature — Agent
X Tony O. Blalock

7. Date of Delivery FEB 23 1989

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 **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 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.

Martha J. Wise 2-21-89
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 wet 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) with Flex-Kleen 84-WRB-64-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 silo with holding systems connected to a common main dust 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.

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

Attachments are listed below:

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

2. 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

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;

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.

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 location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart 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 permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

- 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.

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:

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

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

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 Dec, 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	
To:	Location:
To:	Location:
To:	Location:
From:	Date:

Interoffice Memorandum

RECEIVED
FEB 20 1989

TO: Dale Twachtmann

Office of the Secretary

for 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

attachments

Please call Patty Adams when signed 4-1344

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

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
BT
attachments

Check Sheet

Company Name: GOLD BOND BUILDING PRODUCTS
Permit Number: AQ 29-196217, ~~196218~~, through 196221 and 196222 & 196223
PSD Number:
Permit Engineer:

Application:

- [x] Initial Application
  - [x] Incompleteness Letters
  - [x] Responses
  - [ ] Waiver of Department Action
  - [ ] Department Response
  - [ ] Other

Cross References:

- [ ]
- [ ]
- [ ]

Intent:

- [x] Intent to Issue
- [x] Notice of Intent to Issue
- [x] Technical Evaluation
- [ ] BACT Determination
- [x] Unsigned Permit

Correspondence with:

- [ ] EPA
- [ ] Park Services
- [x] Other

- [x] Proof of Publication
  - [ ] Petitions - (Related to extensions, hearings, etc.)
  - [ ] Waiver of Department Action
  - [ ] Other

Final Determination:

- [x] Final Determination
- [x] Signed Permit
- [ ] BACT Determination
- [ ] Other

Post Permit Correspondence:

- [x] 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 which document was received	Detailed Description
Application 28 Nov 1988	1. 24"x36" 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)

PS Form 3800, June 1985

Sent to	Mr. R. G. Moore, Gold Bond
Street and No.	6110 Commerce St. Building Products
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 Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	Permit: AC 29-155612 Mailed: 9-13-89

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.
1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)* 2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
Mr. R. G. Moore
Tampa Plant Manager
Gold Bond Building Products
6110 Commerce Street
Tampa, FL 33616

4. Article Number
P 938 762 676

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

6. Signature — Agent
X Margo Jancsar

7. Date of Delivery SEP 18 1989

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Mar. 1988 * U.S.G.P.O. 1988-212-865 **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 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,

Dale 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:	Date:

Interoffice Memorandum

TO: Dale Twachtmann

FROM: Steve Smallwood

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, Gold Bond Bldg. Prod.	
Street and No. P.O. Box 19307	
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 Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date Mailed: 5-24-89 Permit: AC 29-156217 - -221 AC 29-156223 & -224	

PS Form 3800, June 1985

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
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2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
Mr. R. G. Moore
Plant Manager
Gold Bond Building Products
P. O. Box 19307
Tampa, FL 33616

4. Article Number
P 938 762 574

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8. Addressee's Address *(ONLY if requested and fee paid)*

5. Signature – Address
X

6. Signature – Agent
X Terry D. Blanchard

7. Date of Delivery

TAMPA, FLA. PORT ... MAY 29 1989 USPO

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 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 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 consists of a limestone DC Bin No. 2 (AC 29-156217) with ~~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 ~~silo~~ holding bin with intermediate holding systems connected to a common main dust collector (AC 29-156223) with Flex-Kleen 84-RA-128-KD baghouse, and a limestone ~~silo~~ holding bin 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.

• 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 ~~silo~~ holding bin with intermediate holding systems connected to a common main dust collector (AC 29-156223), and limestone ~~silo~~ 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 ~~silo~~ 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 ~~silo~~ 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 continuously measure and record the following 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).

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 ~~0.60~~ 0.30 lbs./hr., nor ~~1.09~~ 0.55 tons/yr.

b. thru e.-No Change.

f. Particulate emissions from the dry material bagging system and limestone ~~silo~~ 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 ~~silo~~ 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 ~~silo~~ holding bin with intermediate holding systems connected to a common main collector (AC 29-156223), and the limestone ~~silo~~ holding bin pneumatic unloading system (AC 29-156224) shall not exceed 5% opacity (no visible emissions) as a 6-minute average.

- Specific Condition No. 7:

This modification results in a particulate matter increase of ~~10.88~~ 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 ~~10.88~~ 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.

Sincerely,

Dale Twachtmann
Secretary

DT/mdh

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

For Routing To Other Than The Addressee

To: _____ Location: _____

To: _____ Location: _____

To: _____ Location: _____

From: _____ Date: _____

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

TO: 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
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

FAX TRANSMITTAL LETTER

TO:

NAME: E. J. Reich

AGENCY: Gold Bond Bldg. Products

TELEPHONE NUMBER: 704/365-7331

NUMBER OF PAGES (INCLUDING COVER SHEET): 5

FROM:

Name: Mike Harley

AGENCY: FL DER

TRANSMITTAL ON A HITACHI HIFAX-35 PHONE NUMBER 904-488-6579

IF ANY OF THE PAGES ARE NOT CLEARLY RECEIVED, PLEASE CALL IMMEDIATELY. Phone No. 904/488-1344

SENDERS NAME: Patty Adams

COMMENTS:

Please call Mike Harley (904/488-1344) 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: DRAFT

- Project Description: DRAFT

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 consists of a limestone DC Bin No. 2 (AC 29-156217) with ~~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 ~~silo~~ holding bin with intermediate holding systems connected to a common main dust collector (AC 29-156223) with Flex-Kleen 84-RA-128-KD baghouse, and a limestone ~~silo~~ holding bin 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.

- Specific Condition No. 1: DRAFT

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~~ holding bin with intermediate holding systems connected to a common main dust collector (AC 29-156223), and limestone ~~silo~~ 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 ~~silo~~ 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 ~~silo~~ 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: DRAFT

3. ~~Calibrated devices to continuously measure and record the following 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).

DRAFT

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: DRAFT

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 ~~0.60~~ 0.30 lbs./hr., nor ~~1.09~~ 0.55 tons/yr.

b. thru e.-No Change.

f. Particulate emissions from the dry material bagging system and limestone ~~silo~~ 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 ~~silo~~ 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: DRAFT

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~~ holding bin with intermediate holding systems connected to a common main collector (AC 29-156223), and the limestone ~~silo~~ holding bin pneumatic unloading system (AC 29-156224) shall not exceed 5% opacity (no visible emissions) as a 6-minute average.

DRAFT

- Specific Condition No. 7: DRAFT

This modification results in a particulate matter increase of ~~10.88~~ 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 ~~10.88~~ 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: DRAFT

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,

DRAFT

Dale Twachtmann
Secretary

DT/mdh

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

pm
4-26-89
Tampa, FL

file copy

ROGER P. STEWART
DIRECTOR

1900 - 9th AVE
TAMPA, FLORIDA 33605

TELEPHONE (813) 272-5960

April 25, 1989

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

Arthur 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)

copied: CHF/13T

Environmental Protection Commission
of
Hillsborough County

1900 9th Avenue
Tampa, Florida 33605

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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

Gold Bond Building Products
A National Gypsum Division

RECEIVED
APR 10 1989
DER - BAQM

April 3, 1989

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

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.

Gold Bond Building Products
A National Gypsum Division

March 28, 1989

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

RECEIVED
APR 3 1989
DER - BAQM

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

Dear Sir:

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

D. B. Collins
Environmental Engineer

DBC/mmm

cc: R. G. Moore
Tampa Plant Mgr.
E. J. Reich
Chief Mech. Eng.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Limestone DC BIN

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, Florida 33616

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Gold Bond Building Products 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I 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 permitted establishment.

*Attach letter of authorization

Signed: R G Moore

R.G. Moore, Plant Manager
Name and Title (Please Type)

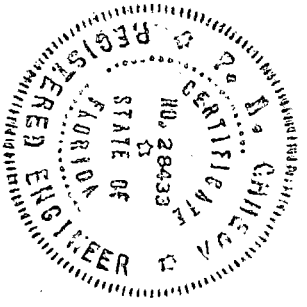
Date: 3-31-89 Telephone No. (813) 839-2111

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)

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 PSChheda

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)

Florida Registration No. 28433 Date: 10-10-1988 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

This is a 180 ton capacity BIN and will contain only limestone. It will be pneumatically loaded from railcars or trucks at a rate of 10 tons/hr. Using 1050 CFM conveying air which will be vented thru a 288 sq. ft. baghouse which will result in full compliance.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction March 1989 Completion of Construction June 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 dust control system =$25,000.00

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

AC 29-156217

E. Requested permitted equipment operating time: hrs/day 10 ; days/wk 7 ; wks/yr 52 ;

if power plant, hrs/yr_____; if seasonal, describe:_____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

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 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 Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to 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:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Limestone	Particulate		20,000	Flow Chart Attached

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

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 Contaminant	Emission[1]		Allowed[2] Emission Rate per Rule 17-2	Allowable[3] Emission lbs/hr	Potential[4] Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Limestone Dust	.27	.49	N/A	N/A	270	491	See Chart

[1]See Section V, Item 2.

[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)

[3]Calculated from operating rate and applicable standard.

[4]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.)	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

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

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

Fuel Analysis:

Percent Sulfur:_____ Percent Ash:_____

Density: _____ lbs/gal Typical Percent Nitrogen:_____

Heat Capacity: _____ BTU/lb _____ 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.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 4.5 ft. Stack Diameter: 8" DIA ft.

Gas Flow Rate: 1050 ACFM 1050 DSCFM Gas Exit Temperature: Ambient °F.

Water Vapor Content: Ambient % Velocity: 50.0 FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume $(ft)^3$	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diamter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: [ ] Cyclone [ ] Wet Scrubber [ ] Afterburner

[ ] Other (specify) _____

Brief description of operating characteristics of control devices:

Pulse-Jet Baghouse

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, 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.

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 consiatent: 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 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.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

[X] Yes [ ] No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

[ ] Yes [ ] No N/A

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology? N/A

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any). N/A

1. Control Device/System:
2. Operating Principles:
3. Efficiency:*
4. Capital Costs:

*Explain method of determining

5. Useful Life: N/A

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters N/A

a. Height: ft.

b. Diameter: ft.

c. Flow Rate: ACFM

d. Temperature: °F.

e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1. EPA has determined that BACT for this source is a fabric filter.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1] N/A

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.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1] N/A

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:[2]

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1] N/A

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:

4.

a. Control Device: N/A

b. Operating Principles:

c. Efficiency:[1]

d. Capital Costs:

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, inatall in available space, and operate within proposed levels:

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:[1]

3. Capital Cost: N/A

4. Useful Life:

5. Operating Cost:

6. Energy:[2]

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager: N/A

(6) Telephone No.:

(7) Emissions:[1]

Contaminant	Rate or Concentration

(8) Process Rate:[1]

b. (1) Company: N/A

(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:

[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 N/A

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ ( ) SO^{2}* _____ Wind spd/dir

Period of Monitoring ____/____/____ to ____/____/____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory N/A

a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No

b. Was instrumentation calibrated in accordance with Department procedures?

[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling N/A

1. _____ Year(s) of data from ____/____/____ to ____/____/____
month day year month day year

2. Surface data obtained from (location)_____

3. Upper air (mixing height) data obtained from (location)_____

4. Stability wind rose (STAR) data obtained from (location)_____

C. Computer Models Used N/A

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 showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data N/A

Pollutant	Emission Rate	
TSP	_____	grams/sec
SO^2	_____	grams/sec

E. 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
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

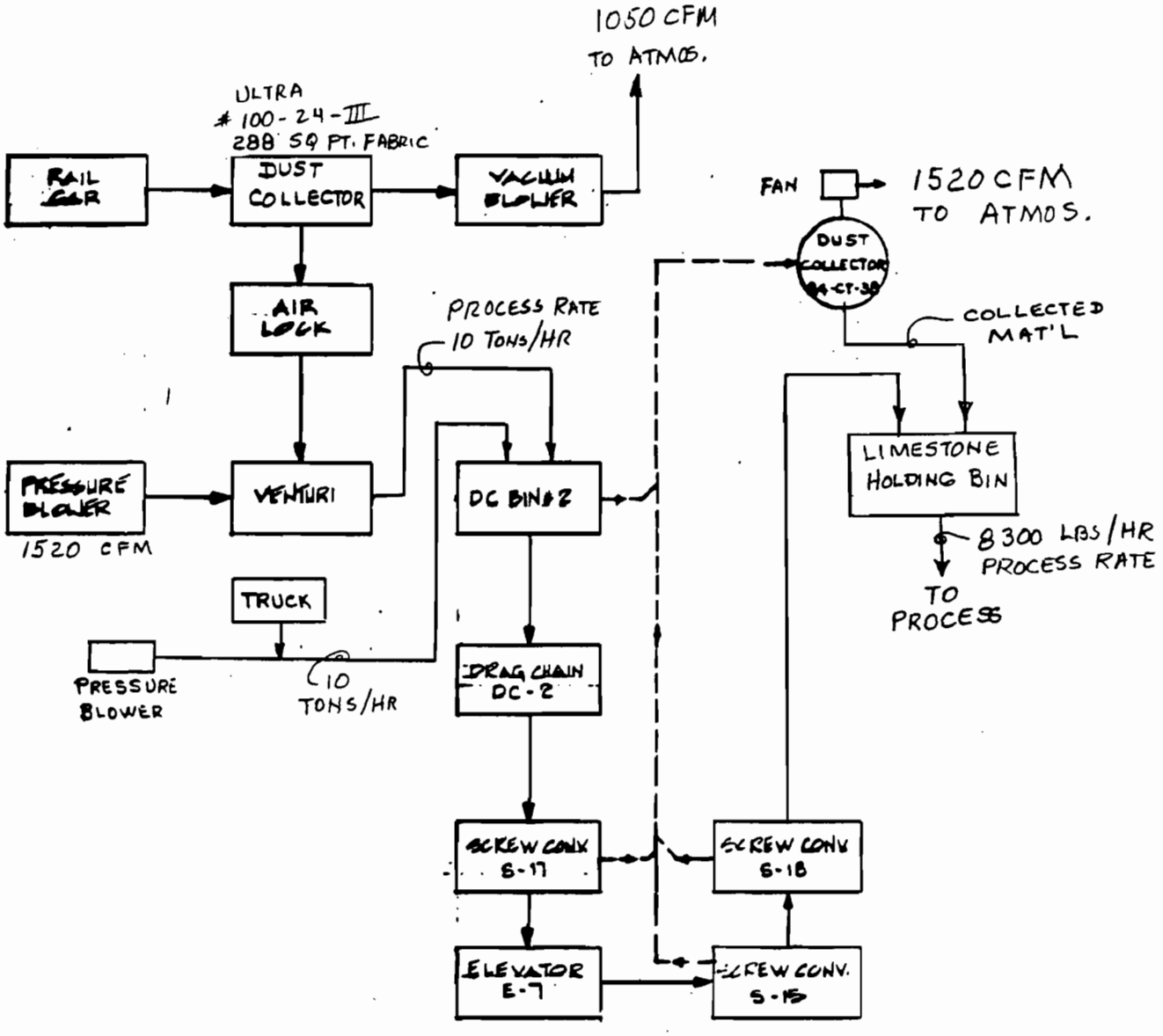
4. Baghouse Air/Cloth Ratio = 1050/288 = 3.6:1

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

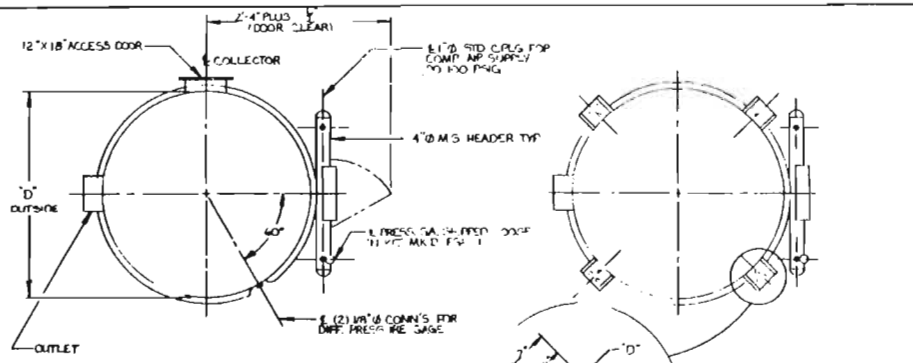
REV	BY	DATE	DESCRIPTION

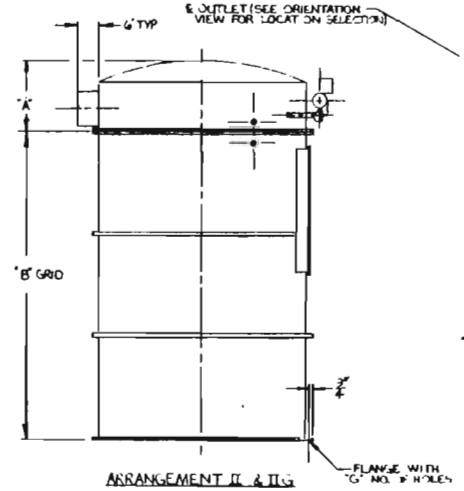
Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

LIMESTONE DC BIN AND HOLDING BIN

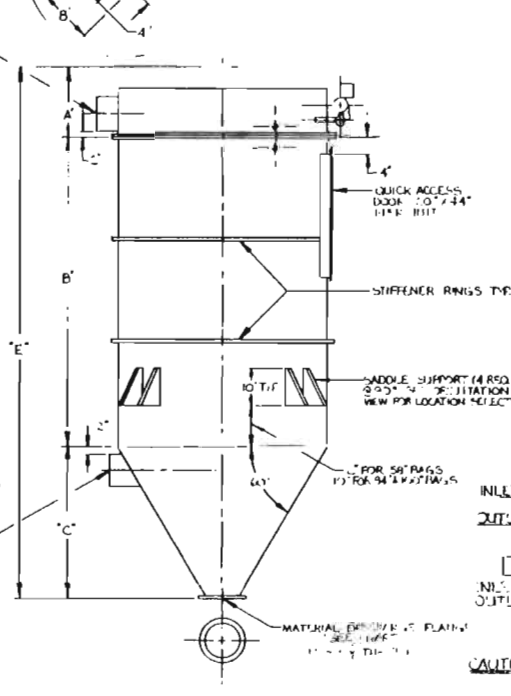
SCALE	—	DATE 03-21-89	
DRAWN	DC	TAMPA	
CHECK		SK 032189	REV. 0
APPD.			
PROJ.			

NG 7/86

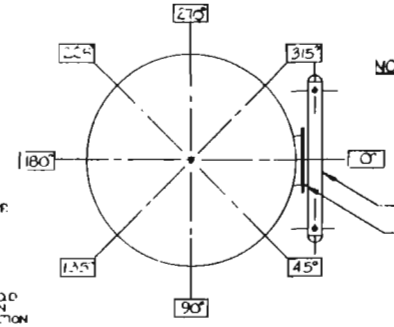




ARRANGEMENT II & IIG



MODEL C -	10 58	10 84	18 58	18 84	18 100	24 58	24 84	24 100	36 58	36 84	36 100	48 58	48 84	48 100
D-DIAMETER	2'8"	2'8"	3'4"	3'4"	3'4"	4'0"	4'0"	4'0"	4'8"	4'8"	4'8"	5'6"	5'6"	5'6"
NO. OF BAGS	10	10	10	18	18	24	24	24	36	36	36	48	48	48
FILTER AREA (SQ. FT.)	73	100	131	180	216	175	240	288	248	340	408	350	480	576
NO. OF VALVES	3	3	4	4	4	5	5	5	6	6	6	8	8	8
COMP AIR REQD (SCFM)	4.7	5.1	6.0	6.5	6.8	6.5	6.9	7.2	7.0	7.7	8.0	10.3	10.7	11.1
A	1'8"	1'8"	1'8"	1'8"	1'8"	1'8"	1'8"	1'8"	1'10"	1'10"	1'10"	2'0"	2'0"	2'0"
B	5'1"	7'3"	5'1"	7'3"	8'7"	5'1"	7'3"	8'7"	5'1"	7'3"	8'7"	5'1"	7'3"	8'7"
B-GRID	5'6"	7'8"	5'6"	7'8"	9'0"	5'6"	7'8"	9'0"	5'6"	7'8"	9'0"	5'6"	7'8"	9'0"
C	1'9"	1'9"	2'4"	2'4"	2'4"	2'11"	2'11"	2'11"	3'6"	3'6"	3'6"	4'1"	4'1"	4'1"
E	8'6"	10'8"	9'1"	11'3"	12'7"	9'8"	11'10"	13'2"	10'5"	12'7"	13'11"	11'2"	13'4"	14'8"
OUTLET- (INCHES) O.D.	6	6	8	10	10	10	10	10	10	11	12	14	14	
INLET- (INCHES) O.D.	5	6	6	8	9	8	9	10	9	10	11	11	13	14
DISCHARGE- (INCHES) I.D.	8	8	8	8	8	8	8	8	8	8	8	10	10	10
G-NO OF BOLTS	28	28	36	36	36	44	44	44	52	52	52	60	60	60
WT ARR-I	240	260	400	420	440	530	550	565	680	700	720	850	850	870
IN ARR-II	450	510	800	920	1000	1150	1290	1410	1420	1570	1700	1750	1900	2190
LBS ARR-III	500	560	880	1000	1080	1310	1450	1590	1650	1900	1940	2070	2220	2510



ORIENTATION VIEW
KEY FOR SELECTION OF COMPONENT LOCATION ONLY

INLET OPTIONS ARE: ANY ANGULAR LOCATION CLOCKWISE BETWEEN 0° & 360°

OUTLET OPTIONS ARE: ANY ANGULAR LOCATION CLOCKWISE BETWEEN 90° & 270°

SADDLE SUPPORT OPTIONS ARE

[0°] [90°] [180°] [270°] OR [45°] [135°] [225°] [315°]

INLET LOCATION REQ'D
OUTLET LOCATION REQ'D
SADDLE SUPPORT LOCATION REQ'D

CAUTION: INLET LOCATION CANNOT COINCIDE WITH SADDLE SUPPORT LOCATION WHEN SUPPORT LEGS ARE TO BE USED

NOTES

1. DRAWING IS TO BE USED FOR GENERAL ARRANGEMENT ONLY AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT CERTIFIED.
2. ALL EXTERIOR MILD STEEL SURFACES TO HAVE ONE (1) SHOP PRIME COAT.

ULTRA INDUSTRIES INC.
1010 MADISON ST MAYWOOD IL 60153

DRAWN: AL APPROVED BY: DESIGNED BY: G. BUDE
DATE: 6-11-81 REVISIONS:

MODEL C FABRIC FILTER

00166-C0D00

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

RETURN RECEIPT REQUESTED

Type at line over top of envelope to the right of the return address

CERTIFIED

P 806 036 874

MAIL

FIRST CLASS MAIL

ADDRESS CORRECTION REQUESTED

XXXXXXXXXXXXX
Sales Department
6110 W. Commerce Street
P.O. Box 19307
Tampa, FL. 33686

FOR

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

Gold Bond Building Products
A National Gypsum Division

Gold Bond Building Products
A National Gypsum Division

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

File Copy

Gold Bond Building Products
A National Gypsum Division

RECEIVED
MAR 31 1989
DER-BAQM

March 28, 1989

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:

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.

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.

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

PRESORTED FIRST CLASS

CHARLOTTE N.C. MAR29'89 P.B. METER 6726717 U.S.POSTAGE ≈ 0.2

Gold Bond Building Products
A National Gypsum Division

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

Address Correction Requested

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

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

P 274 010 414

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Mr. R. G. Moore
Plant Mgr.
Street and No. Gold Bond Building Products
P.O. Box 19307
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 Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

mailed: 3/30/89
Permits: AC 29-156217 -156221, -156223 & -156224

PS Form 3800, June 1985 ★ U.S.G.P.O. 1985-480-794

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.

1. ☒ Show to whom delivered, date, and addressee's address. *(Extra charge)* 2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
Mr. R. G. Moore
Plant Mgr.
Gold Bond Building Products
P.O. Box 19307
Tampa, FL 33616

4. Article Number
P 274 010 414

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

8. Addressee's Address *(ONLY if requested and fee paid)*

6. Signature — Agent
X Tony D. Blackwell

7. Date of Delivery
APR 3 1989

TAMPA, FLA. PORT TAMPA CITY

PS Form **3811**, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 **DOMESTIC RETURN RECEIPT**

File Copy

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:

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 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:

8. Gold Bond's extension request, dated March 7, 1989, and received March 10, 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
Mike Harley
Reading File
Pam Houmere
} 3-30-89 RAM

Gold Bond Building Products
A National Gypsum Division

March 7, 1989

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

RE: Joint Compound Production Line:
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

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

D. B. Collins
Environmental Engineer

cc: R. G. Moore - Tampa Plant Manager

DBC/elw

Copied: M. Mulkey
C. Hefner

picked-up from Sec's office: 3-30-89 RR

For Routing To Other Than The Addressee

To: 8-1344 Location:

To: Location:

To: Location:

From: Date:

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

RECEIVED
MAR 24 1989
Office of the Secretary

TO: Dale Twachtmann

FROM: Steve Smallwood

SUBJ: Approval of a Construction Permit Amendment for Gold Bond Building Products

State Construction Permit Numbers: AC 29-156217 through 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

DT-A

P 274 007 610

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

Sent to	Mr. D. B. Collins, Gold Bond
Street and No.	2001 Rexford Rd. Bldg. Prod.
P.O. State and ZIP Code	Charlotte, NC 28211-3498
Postage	$
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	Mailed: 3-24-89

PS Form 3800, June 1985 ★ U.S.G.P.O. 1985-480-794

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.
1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)* 2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

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

4. Article Number
P 274 007 610

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

6. Signature — Agent
X Steven Clift

7. Date of Delivery
3-27-89

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 **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 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:

Re: 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. We are 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. We do 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

Gold Bond Building Products

A National Gypsum Division

March 7, 1989

RECEIVED
MAR 10 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 Oak Fair Boulevard
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
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

D. B. Collins
Environmental Engineer

cc: R. G. Moore - Tampa Plant Manager

DBC/elw
copied: M. Harley
CHF/BT
Jerry Campbell, EPCHC } 3-30-89 RBm (@ amendment pkg dated 3-22-89)
P. Chheda, P.E.

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

PRESORTED FIRST CLASS

CHARLOTTE N.C. MAR-8'89

U.S.POSTAGE ≈ 0.21

P.B. METER 6726717

Gold Bond Building Products

A National Gypsum Division

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

Address Correction Requested

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, 1989

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,

J. Harry Kerns

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

JHK/riq

ROGER P. STEWART
DIRECTOR

1900 - 9th AVE
TAMPA, FLORIDA 33605

TELEPHONE (813) 272-5960

February 15, 1989

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

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

		Initial	Date
1.	TO: (NAME, OFFICE, LOCATION) MR. MIKE HARLEY BAQM Twin Towers Tallahassee		
2.			
3.			
4.			

RECEIVED
FEB 13 1989
DER-BAQM

REMARKS:

Proof of publication for Gold Bond Building Products's Joint Compound Process AC.

INFORMATION
- Review & Return
- Review & File
- Initial & Forward

DISPOSITION
- Review & Respond
- Prepare Response
- For My Signature
- For Your Signature
- Let's Discuss
- Set Up Meeting
- Investigate & Report
- Initial & Forward
- Distribute
- Concurrence
- For Processing
- Initial & Return

FROM: RAMA IYER

DATE 2/10/89

PHONE

Dear Mr. Harley,

I'm sending you The proof of publication for The Joint Compound Process AC permit.

Thanks,

Rama Iyer

file copy
cc: M. Harley
B. Thomas, SW Dist
J. Campbell, HCEPC

THE TAMPA TRIBUNE

Published Daily
Tampa, Hillsborough County, Florida

RECEIVED
FEB 6 1989
DER - BAQM

State of Florida
County of Hillsborough } ss.

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

was published in said newspaper in the issues of February 2, 1989

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.

G. T. Gleason

Sworn to and subscribed before me, this 2nd *day of* February, *A.D. 19* 89

(SEAL)

Notary Public, State of Florida
My Commission Expires Jan. 6, 1993
Bonded Thru Troy Fain - Insurance Inc.

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 as 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 proceedings (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.

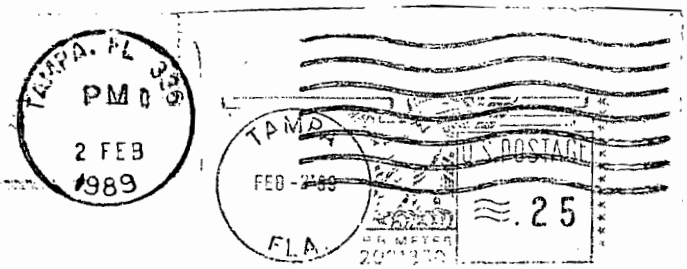
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard 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.

1356 2/2/89

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



RECEIVED
FEB 6 1989
DER-BAQM

Gold Bond Building Products
A National Gypsum Division

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

Attn: C. H. Fancy

P 274 007 565

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.	P.O. Box 19307 Bldg. Prod.
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 Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	Mailed: 1-26-89 Permit: AC 29-156217, -17, -19 -20, -21, -23, -24

PS Form 3800, June 1985 ★ U.S.G.P.O. 1985-480-794

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.
1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)* 2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
Mr. R. G. Moore, Plant Manager
Gold Bond Building Products
P. O. Box 19307
Tampa, Florida 33616

4. Article Number
P 274 007 565

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

6. Signature — Agent
X Terry O. Bloch

7. Date of Delivery JAN 30 1989

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 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 Secretary

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 compound. 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,

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

CHF/mh

Attachments

cc: 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 compound. The proposed joint compound production line consists 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 J Wise — January 26, 1989
Clerk — 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

The applicant proposes to relocate an existing joint 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 Street, Tampa, Hillsborough County, Florida. The universal transverse mercator (UTM) coordinates are Zone 17, 347.3 km East, and 3082.7 km North. The Standard Industrial 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 feet of filtration area. The flow to the baghouse will be 360 DSCFM. The emissions from the joint compound polystyrene transport system and feed hopper (AC 29-156219) will be controlled by a model 58-BV-9-II baghouse with 65 square feet of filtration area. The flow to the baghouse will be 360 DSCFM. 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 (AC 29-156221) 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 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 DSCFM. The emissions from the joint compound limestone silo pneumatic unloading system (AC 29-156224) will be controlled by a model 84-CT-38-III baghouse with 403 square feet of filtration area. 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 limestone DC Bin No. 2 (AC 29-156217), joint compound polystyrene grinding and storage system (AC 29-156218), joint compound polystyrene transport system and feed hopper (AC 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 (AC 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). The 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. Summary of Emissions

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

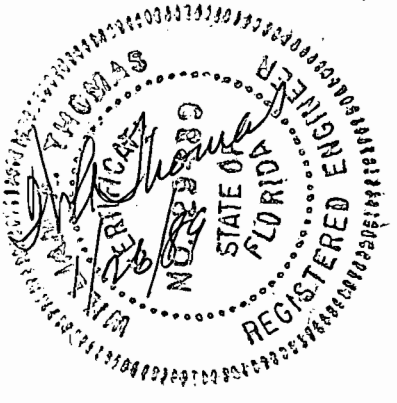
the proposed joint compound limestone DC Bin No. 2 (AC 29-156217); (2) 0.09 lbs./hr. and 0.40 tons/yr. from the proposed joint compound polystyrene grinding and storage system (AC 29-156218), (3) 0.09 lbs./hr. and 0.40 tons/yr. from the proposed joint compound polystyrene transport system and feed hopper (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 tons/yr. from the proposed joint compound limestone silo 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 is 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. Rules 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 Products 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 technical provision of Chapter 17-2 of the Florida Administrative Code.



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 wet 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) with Flex-Kleen 84-WRB-64-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 silo with holding systems connected to a common main dust 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.

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

Attachments are listed below:

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

2. 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

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;

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.

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 location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart 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 permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

- 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.

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:

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

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

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 _____ day
of _____, 1989

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

_____
Dale Twachtmann, Secretary

file copy

PM
1-12-89
Charlotte, NC

Gold Bond Building Products
A National Gypsum Division

RECEIVED
JAN 17 1989
DER - BAQM

January 11, 1989

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,

DB Collins

D. B. Collins
Environmental Engineer

DBC/mmm

cc: E. J. Reich
Chief Mechanical Engineer
M. Harley

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

PRESORTED FIRST CLASS

CHARLOTTE JAN 12'89 N.C. P.B. METER 6726717 U.S.POSTAGE 0.21

Gold Bond Building Products
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

FAX TO

(704) 488-6579

FROM MIKE HARLEY FLA DEP

PM
1-10-89
Charlotte, NC

Main File Copy

Gold Bond Building Products
A National Gypsum Division

RECEIVED
JAN 13 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

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. Unloading of the polystyrene and limestone delivery trucks will be by enclosed pneumatic conveying.

2. 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.

4. 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

D. B. Collins
Environmental Engineer

DBC/mmm

cc: E. J. Reich
Chief Mechanical Eng.

Mike Harley 1-18-89 AAN
BT/CHF

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

PRESORTED FIRST CLASS

CHARLOTTE N.C. JAN 10 '89 — U.S.POSTAGE 0.21 — PB METER 6726717

Gold Bond Building Products
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

Gold Bond Building Products
A National Gypsum Division

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

D. B. Collins
Environmental Engineer

DBC/mmm

cc: E. J. Reich
Chief Mechanical Eng.

Gold Bond Building Products
A National Gypsum Division

December 28, 1988

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

E. J. Reich, P. E.

EJR/mmm

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

DEC 28 '88 10:18 GOLD BOND 2ND FLOOR

RECEIVED
DEC 28 1988
DER - BAQM

GOLD BOND BUILDING PRODUCTS
2001 Rexford Road • Charlotte, NC 28211 • (704) 365-7300

A Facsimile Message

To State of Florida

FAX# (904) 488-6579

DATE

TIME

Southwest
Tampa, Flor 2610 9

Message:

From Gold Bond Building Products
Engineering Dept.

Number of pages including cover

GOLD BOND BUILDING PRODUCTS

DIVISION OF NATIONAL GYPSUM COMPANY
325 DELAWARE AVENUE · BUFFALO, NEW YORK 14202 · 716/852-5880

RECEIVED
DEC 21 1988
DER - BAQM

ENGINEERING DEPT.

TRANSMITTAL OF DRAWINGS VIA

☐ 1st CLASS MAIL ☐ 4th CLASS MAIL ☐ EXPRESS ☐ AIR EXPRESS
☐ AIR MAIL ☐ SPECIAL DELIVERY ☐ OTHER - _____

TO: FLA. D.E.R.
2600 BLAIR STONE Rd.
TALLAHASSEE, FL 32399-2400
ATTEN: Mr. MIKE HARLEY

DATE: 12/16/88
W.O. NO. _____
PLANT: TAMPA

GENTLEMEN:

WE ARE RETURNING / SENDING YOU HEREWITH THE FOLLOWING _____

☐ PRINTS ☐ TRACINGS ☐ BILL OF MATERIALS ☐ SEPIAS

DWG. NO.	REV. NO.	COPIES EACH	DWG. NO.	REV. NO.	COPIES EACH	DWG. NO.	REV. NO.	COPIES EACH

WHICH ARE:
☐ APPROVED
☐ FOR YOUR RECORDS
☒ AS PER YOUR REQUEST
☐ FOR USE IN CONNECTION WITH YOUR WORK
☐ APPROVED EXCEPT AS NOTED. PLEASE MAKE THE NECESSARY CORRECTIONS AND SEND US _____ PRINTS OF EACH REVISED DRAWING FOR FINAL ☐ APPROVAL ☐ DISTRIBUTION

REMARKS
COPY OF DADE COUNTY
PERMIT # AP-0444-88C

C.C AND _____ SETS OF PRINTS TO

GOLD BOND BUILDING PRODUCTS
DIVISION OF NATIONAL GYPSUM COMPANY
BY _____

NG 2328 REV. 11-66

(END) PERMIT S - MIT

METRO-DADE

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

RCVD

AUG 1 1988

PERMITTEE: Mr. Douglas A. Morgan
NATIONAL GYPSUM COMPANY
2860 West 3 Ct
Hialeah, Fl. 33010

Permit Number: AP-0444-88C
Area: 09
Source Name: NATIONAL GYPSUM COMPANY
Location: 2860 West 3 Ct
Hialeah, Fl. 33010

Issued date: July 22, 1988

(1)

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.

RECEIVED
JUL 28 1988

Metropolitan Dade County Department
of Environmental Resources Management

for Anthony J. Clemente, P.E., Director

Gold Bond Building Products
A National Gypsum Division

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

D. B. Collins
Environmental Engineer

DBC/mmm

cc: E. J. Reich
Chief Mechanical Eng.

FORM OF PAYMENT

CASH ☐ GBL CBL ☐ FCCOD ☐

PPD ☑ COL ☐ OTH ☐ COMAT ☐

EMERY WORLDWIDE

0463997919

E Shippers Emery Account Number: 00015525 9

UNITED STATES / CANADA STANDARD SERVICES: Same Day ☐ Next Morning ☑ Second Morning ☐ Other ☐ Metro ☐

INTERNATIONAL STANDARD SERVICES: Courier Express ☐ Air Cargo Service ☐ Air Economy Service ☐ Business Documents ☐ Customs Clearance ☐ Delivery ☐

Date: 12/5/8? Origin: CLT Shipment Number: 046399791

RECEIVED DEC 7 ... DER BAQM

From: D. B. Collins (704) 365-7300
GOLD BOND BLDG PROD
2001 REXFORD RD
CHARLOTTE, NC Canada ☐
Customer's Reference Numbers: W.O. 2074 Zip: 28211

To: Mr. Mike Harley
Florida Dept. of Environmental
2600 Blair Stone Rd.
Tallahassee, FL
E Consignee's Emery Account No. Zip: 32399

Saturday Delivery ☐ Held at Airport ☐ Canada ☐ Tariff Dest. Gateway Check to Shipper $

Emery will collect consignee's check made payable only to the shipper for the value of the goods in the amount shown above.

Description and Marks	Pcs.	L	W	H	Total Pieces	Total Weight (In Lbs.)
					1	

TODSR ☐ Haz Mat ☐ Edit ☐ A B C D E F G H I J K

1 2 3 4 5 6 / 7 8 9 0 1 2

Envelope 9X12 ☒ Pack 12X15 ☒

Shipper's Signature X

32399 N

Terms and Conditions on Back

International Charges	Comm. Code	Third party Emery Account Number mandatory for Third party billing	E Third Party Emery Account No.
Free Domicile ☐			

Multiple Shpts / Drop Box: 1 2 3 4 5 6 / 7 8 9 0 1 2 / Over 32 →

Base Charge | Intl. Customs Value | Intl. Insurance | Rec'd By Emery | Time Received | Date Received

Total Transportation Charges | Other Charges/Advance at Origin OC/AO- $ | Goods Rec'd At: Shippers Door ☒ Emery Terminal ☐ Drop Box ☐ Carrier Advance ☐ A B | By: Emery Representative

Gold Bond Building Products
A National Gypsum Division

RECEIVED
DEC 13 1988
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.

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If you have any further questions, please call.

Sincerely yours,

D B Collins

D. B. Collins
Environmental Engineer

DBC/mmm

cc: ~~E. J. Reich~~
Chief Mechanical Eng.

December 5, 1988

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.

Gold Bond Building Products
A National Gypsum Division

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

D. B. Collins
Environmental Engineer

DBC/mmm

RAC
8/22/88

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 x .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

System 1

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound 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 82 ° 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 Gold Bond Building Produc Division of National Gyps 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. Furthe 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-transferab and I will promptly notify the department upon sale or legal transfer of the permitt establishment.

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

[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 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 _____

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)

Florida Registration No. 28433 Date: 10-10-1988 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

This is a 180 ton capacity silo and will contain only limestone. It will be pneumatically loaded from railcars or trucks at a rate of 10 tons/hr. Using 2300 CFM conveying air which will be vented thru a 640 sq. ft. baghouse which will result in full compliance.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction 12/1/88 Completion of Construction 6/1/89

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 dust control system = $40,000.00

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

N/A

E. Requested permitted equipment operating time: hrs/day 10 ; days/wk 7 ; wks/yr 52 ;

if power plant, hrs/yr_____; if seasonal, describe:_____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

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 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 Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to 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.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

[ ] Yes [ ] No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

[ ] Yes [ ] No N/A

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology? N/A

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any). N/A

1. Control Device/System:
2. Operating Principles:
3. Efficiency:*
4. Capital Costs:

*Explain method of determining

5. Useful Life: N/A

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters N/A

a. Height: ft.

b. Diameter: ft.

c. Flow Rate: ACFM

d. Temperature: °F.

e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1. EPA has determined that BACT for this source is a fabric filter.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1] N/A

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.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1] N/A

d. Capital Cost:

e. Useful Life:

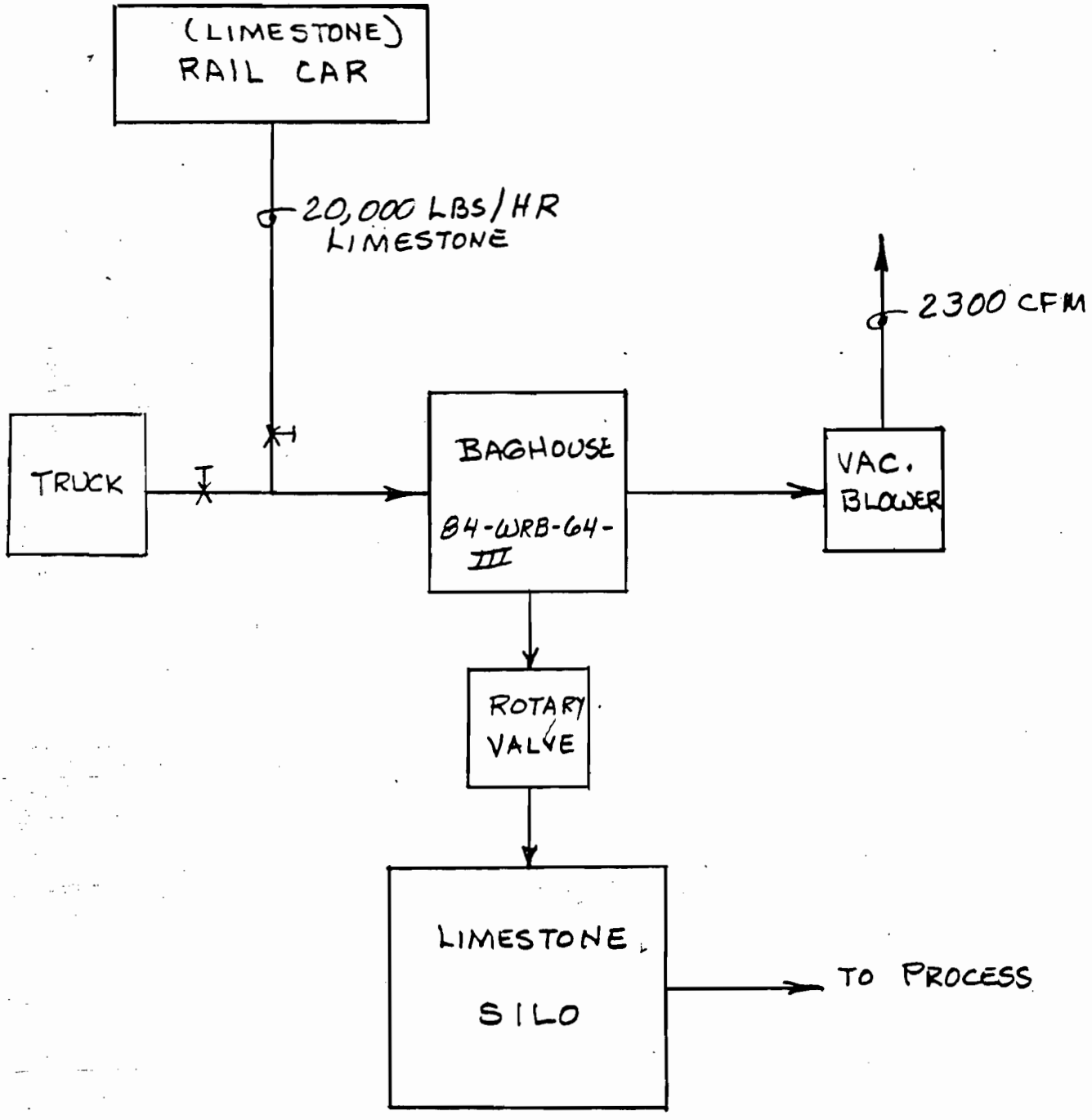
f. Operating Cost:

g. Energy:[2]

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.



REV	BY	DATE	DESCRIPTION

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

LIMESTONE SILO LOADING

SCALE —	DATE 10-5-88
DRAWN JC	TAMPA
CHECK	SK100588-1 REV.
APPD.	
PROJ.	

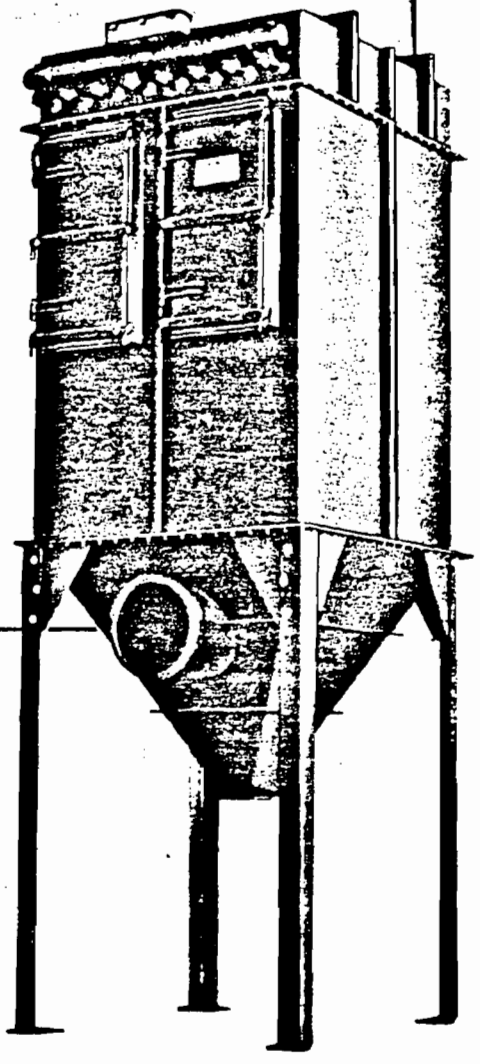
NDT 7/88

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.

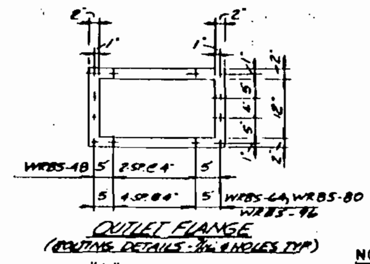
Options

- 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

NOTES

1) COMPRESSED AIR USAGE IS BASED ON AVERAGE TIMER SETTINGS FOR A PROPERLY SIZED DUST COLLECTOR.
2) DESIGN PRESSURE IS ± 17" W.G.
3) WHEN INTERNAL PLATFORM IS INCLUDED WITH UNIT, THE MODEL BECOMES ARR. II G OR III G.
4) DRAWING IS TO BE USED FOR GENERAL ARRANGEMENT ONLY AND NOT TO BE USED FOR FIELD CONSTRUCTION UNLESS IT IS CERTIFIED.
5) ALL EXTERIOR MILD STEEL SURFACES TO HAVE ONE (1) SHOP PRIME COAT.
6) SUPPORT LEG DESIGN BASED ON WIND LOAD 30 lbs/ft² AND SEISMIC ZONE 2.
7) THE TABLE AT RIGHT SHOWS THE INLET SIZE RANGE (IN 1" O.D. INCREAMENTS ONLY) AVAILABLE FOR EACH MODEL SIZE, CHOOSE AN INLET SIZE FROM THE TABLE BASED ON 3000 – 4000 ft/min. GAS VELOCITY.



CUSTOMER TO INDICATE MODEL NUMBER & DESIRED LOCATION OF FOLLOWING COMPONENTS

MODEL NUMBER: ______

OUTLET (1,2,3,4, OR 5) (ONE OUTLET PER UNIT) ○

INLET (A,B,C, OR D) (ONE INLET PER UNIT) ○

HOPPER PORT (A,B,C, OR D) ○

POKE HOLE (A,B,C, OR D) ○

BINDICATOR OPNG. (A,B,C, OR D) ○

VIBRATOR PAD (A,B,C, OR D) ○

NOTES DO NOT LOCATE MORE THAN ONE COMPONENT AT EACH POSITION ON THE HOPPER.

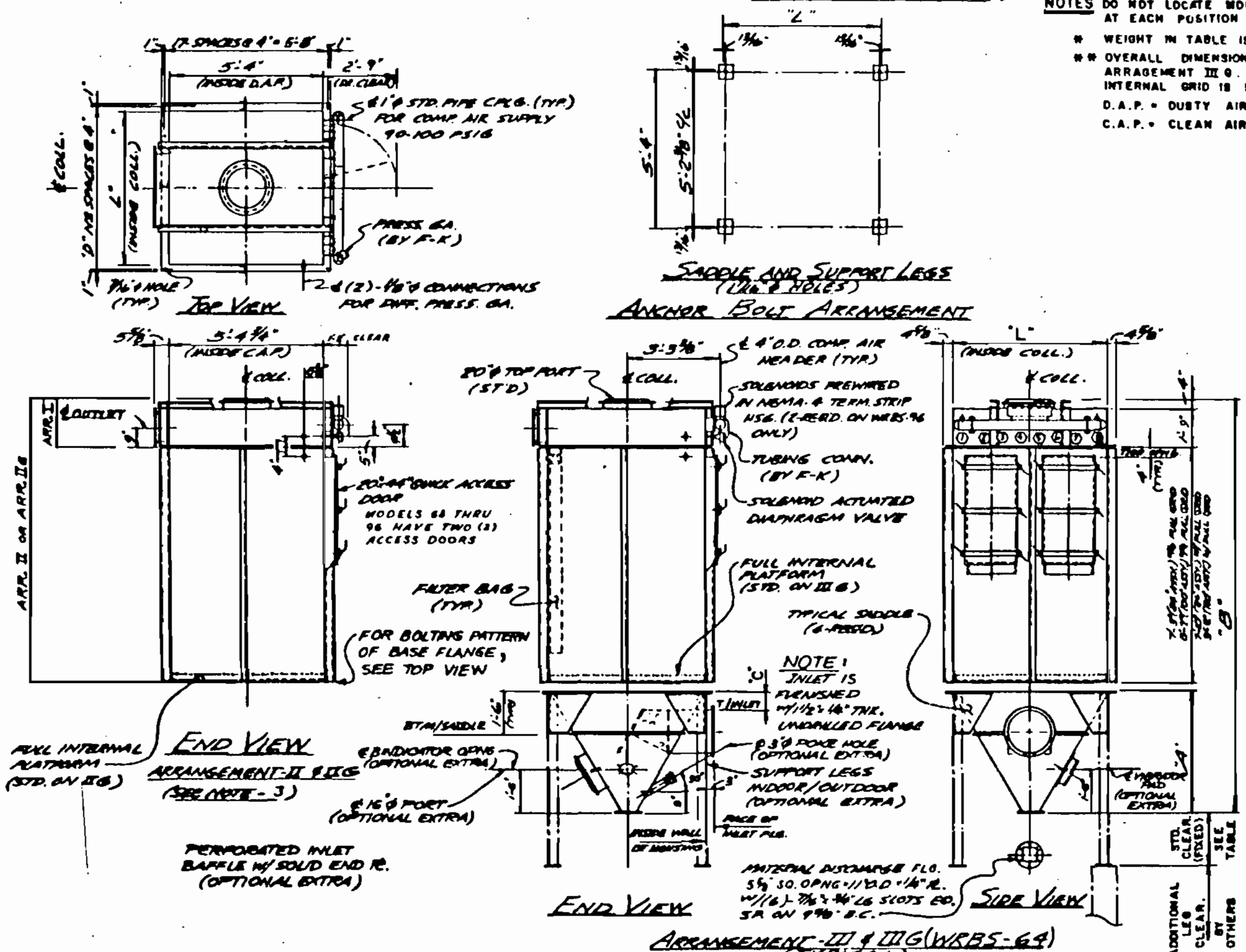
* WEIGHT IN TABLE IS FOR ARRANGEMENT III.

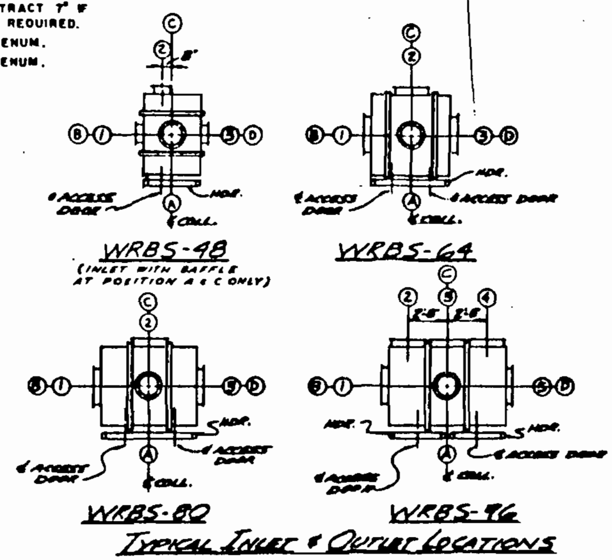
** OVERALL DIMENSION IS GIVEN FOR ARRAGEMENT III G. SUBTRACT 7" IF INTERNAL GRID IS NOT REQUIRED.

D.A.P. = DUSTY AIR PLENUM.

C.A.P. = CLEAN AIR PLENUM.

MODEL			WRBS-48	WRBS-64	WRBS-80	WRBS-96
NO OF BAGS			48	64	80	96
CLOTH AREA (FT.²)			309 / 610	479 / 813	[illegible] / 1016	1018 / 1219
DIMENSIONS	L		4'-0"	5'-4"	6'-8"	8'-0"
	A		4'-3"	4'-3"	5'-5"	6'-6"
	** B		14'-2" / 15'-6"	14'-2" / 15'-6"	15'-4" / 16'-8"	16'-5" / 17'-9"
	C		9"	9"	9"	9"
	D		13	17	21	25
	INLET O.D.		10"-15"	12"-18"	13"-20"	14"-22"
	OUTLET SIZE		12"×16"	12"×24"	12"×24"	12"×24"
CLEARANCE HEIGHT (FIXED)			4'-0"	4'-0"	4'-0"	4'-0"
NO. OF SOLENOIDS			6	8	10	12
COMP. AIR REQMTS. SCFM @ 90-100 PSIG			9.5	11.3	13.5	15.0
* WEIGHT (LBS)			[illegible]	[illegible]	[illegible]	[illegible]





THIS DRAWING SUPERSEDES DRAWING No. A-76F-299 (H)

FLEX-KLEEN CORPORATION

GENERAL DATA

WRBS-48 THRU WRBS-96 A-85JF-042

130-16-0032 H

17
58 - DU - 9 - II ?

SYSTEM 2

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

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Polystyrene Storage Bin

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 Gold Bond Building Produc Division of National Gyps 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. Furthe 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-transferab and I will promptly notify the department upon sale or legal transfer of the permitt establishment.

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

[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 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 PSChheda

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

Polystyrene "peanuts" are ground and air conveyed with 360 CFM air to a holding bin with a 90 square foot Baghouse which will result in full compliance.

(69)

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 dust control = $15,000.00.

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

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

if power plant, hrs/yr_____; if seasonal, describe:_____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

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 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 Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to 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:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Polystyrene	Particulate	Unknown	40 LBS/HR	Flow Chart Attached

B. Process Rate, if applicable: (See Section 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 Contaminant	Emission[1]		Allowed[2] Emission Rate per Rule 17-2	Allowable[3] Emission lbs/hr	Potential[4] Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/~~xxx~~Hr	T/yr	
Polystyrene Particulate	.09	.40	N/A	N/A	30.8	134.5	See Chart

[1]See Section V, Item 2.

[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)

[3]Calculated from operating rate and applicable standard.

[4]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.)	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

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ 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.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

[ ] Yes [ ] No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

[ ] Yes [ ] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:
2. Operating Principles:
3. Efficiency:*
4. Capital Costs:

*Explain method of determining

5. Useful Life: N/A

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height: ft.

b. Diameter: ft.

c. Flow Rate: ACFM

d. Temperature: °F.

e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. 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.

a. 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:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes: N/A

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. 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:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1]

d. Capital Costs:

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:

F. Describe the control technology selected:

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 similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

(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

(8) Process Rate:[1]

10. Reason for selection and description of systems:

[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. _____no. sites _____ TSP _____( ) SO^{2}* _____ Wind spd/dir

Period of Monitoring ____/____/____ to ____/____/____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory N/A

a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No

b. Was instrumentation calibrated in accordance with Department procedures?

[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from ____/____/____ to ____/____/____
month day year month day year

2. Surface data obtained from (location)_____

3. Upper air (mixing height) data obtained from (location)_____

4. Stability wind rose (STAR) data obtained from (location)_____

C. 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 showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data N/A

Pollutant	Emission Rate	
TSP	_____	grams/sec
SO^2	_____	grams/sec

E. 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
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 ÷ 7000 =
   30.8 LBS/HR.
   TONS/YR = 30.8 #/HR x 8736 HRS ÷ 2000 =
   134.5 TONS/YR

4. Baghouse Air/Cloth Ratio = 360/~~90~~ 65 = 4.0:1 = 5.5:1

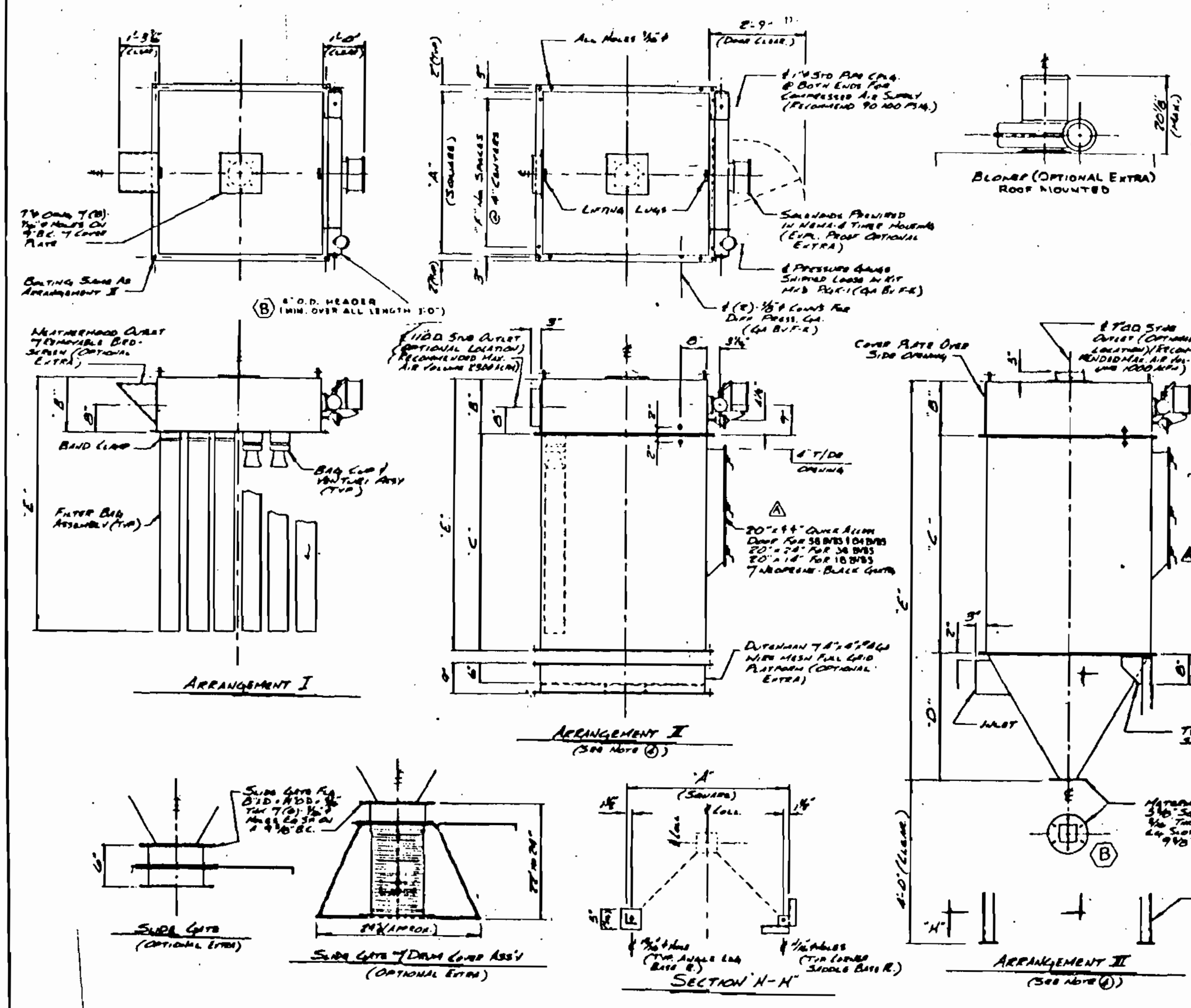
5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.

6. Flow chart attached.

7. Plot plan (plant location) attached.

8. Plot plan (equipment location) attached.

9. Application Fees: $365 County
   Attached $100 State



DATA							DIMENSIONS (WITHOUT DUTCHMAN)							
MODEL NO.	ARRGMT	FILTER AREA SQ. FT.	NO. OF BAGS	BAG LENGTH (IN)	NO. SOL'D VALVES	COMP. AIR REQ'D (SCFM)	A	B	C	D	E	F BOLT SPACING	INLET SIZE	GROSS WT (LBS)
18 BVBS-9	I	17	9	18	3	4.0	3'-0"	1'-6"			3'-10"	5		200
36 BVBS-9	I II III	33 [E]	9	36	3	4.8	3'-0"	1'-6"	6'-5" 5'-5"	1'-6"	4'-4" 4'-6" 5'-10"	5	6"	200 325 375
58 BVBS-9	I II III	65	9	58	3	4.5	3'-0"	1'-6"	5'-0" 5'-0"	1'-6"	6'-5" 6'-6" 7'-8"	5	6"	275 425 475
84 BVBS-9	I II III	95 [E]	9	84	3	5.0	3'-0"	1'-6"	7'-9" 7'-5"	1'-6"	8'-8" 8'-7" 9'-11"	5	6"	275 500 550
18 BVBS-16	I	30	16	18	4	3.8	3'-8"	1'-6"			3'-10"	7		275
36 BVBS-16	I II III	69 [E]	16	36	4	3.3	3'-8"	1'-4"	5'-5" 5'-5"	1'-11"	4'-4" 4'-6" 6'-3"	7	8"	300 475 550
58 BVBS-16	I II III	115 [E]	16	58	4	3.8	3'-8"	1'-4"	5'-0" 5'-0"	1'-11"	6'-5" 6'-4" 8'-5"	7	8"	375 600 675
84 BVBS-16	I II III	170 [E]	16	84	4	6.8	3'-8"	1'-6"	7'-5" 7'-5"	1'-11"	8'-4" 8'-7" 10'-6"	7	8"	350 725 800
18 BVBS-25	I	47	25	18	5	6.9	3'-6"	1'-6"			3'-10"	9		375
36 BVBS-25	I II III	108 [E]	25	36	5	6.9	3'-6"	1'-4"	5'-5" 5'-5"	2'-6"	4'-4" 4'-6" 7'-0"	9	10"	400 675 725
58 BVBS-25	I II III	180 [E]	25	58	5	6.9	3'-6"	1'-4"	5'-0" 5'-0"	2'-6"	6'-5" 6'-6" 8'-10"	9	10"	475 775 875
84 BVBS-25	I II III	265 [E]	25	84	5	7.0	3'-6"	1'-6"	7'-5" 7'-3"	2'-6"	8'-8" 8'-7" 11'-1"	9	10"	475 950 1050
84 BVBS-36	I II III	[E] 382	36	84	6	8.5	4'-0"	1'-4"	7'-3" 7'-3"	3'-1"	8'-4" 8'-7" 11'-8"	11	12"	675 1230 1400

NOTES

1. PYRAMID HOPPER HEIGHT IS BASED ON 60° SLOPE & MATERIAL DISCHARGE OPENING THAT WILL SUIT AN 8" AIRLOCK.
2. DESIGN PRESSURE IS 2 PSIG.
3. DRAWING TO BE USED FOR GENERAL ARRANGEMENT ONLY, NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED.
4. WHEN DUTCHMAN & GRID IS INCLUDED W/ UNIT, THE MODEL IS DESIGNATED AS "ARR. II 4" OR "ARR. III 4".

MARK	REVISION	DATE
E	REV. FILTER DATA.	8-20-81
D	REV. DOOR CLEAR. (WAS 2'7")	10-6-81
C	REVISE MODEL DESIGNATION FROM "BVS" TO "BVBS"	1-16-80
B	REVISED INLET SIZE FOR 84-BVS-36; BOLT HOLE ARR'N'T FOR MAT'L DISCH. FLG; ADDED HEADER NOTE TO PLAN VIEW	5-1-79
A	REVISED DOOR SIZE FOR 58 & 84 BVS UNITS. ADDED 84-BVS-36 UNIT TO STOCK SERIES	

FLEX-KLEEN CORPORATION

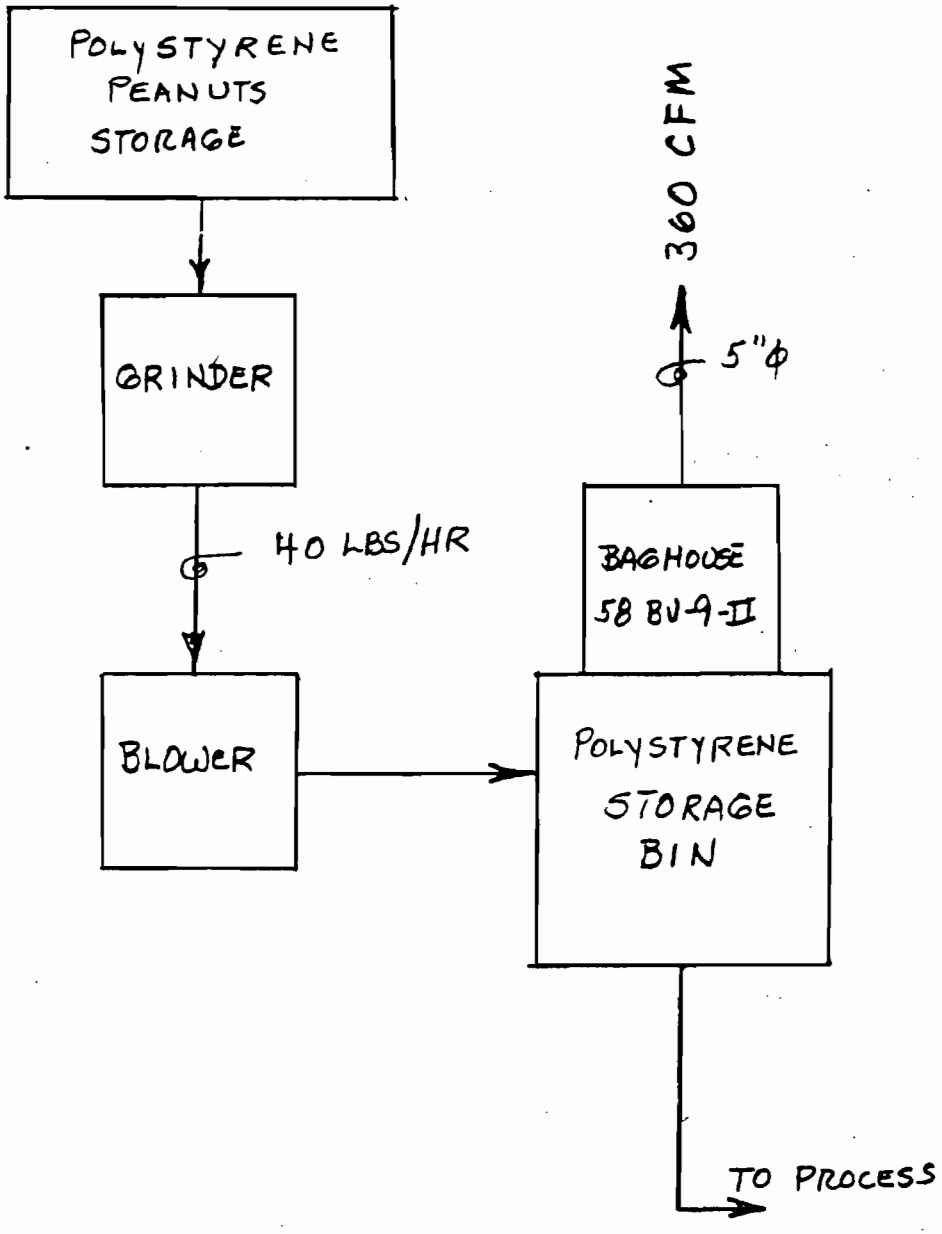
DRAWN HTS
DATE 4-14-75

GENERAL DATA

THIS DRAWING SUPERSEDES A-70F-136

MODEL STOCK "BVBS" SERIES — A-75F-55 — E

130-16-0021E



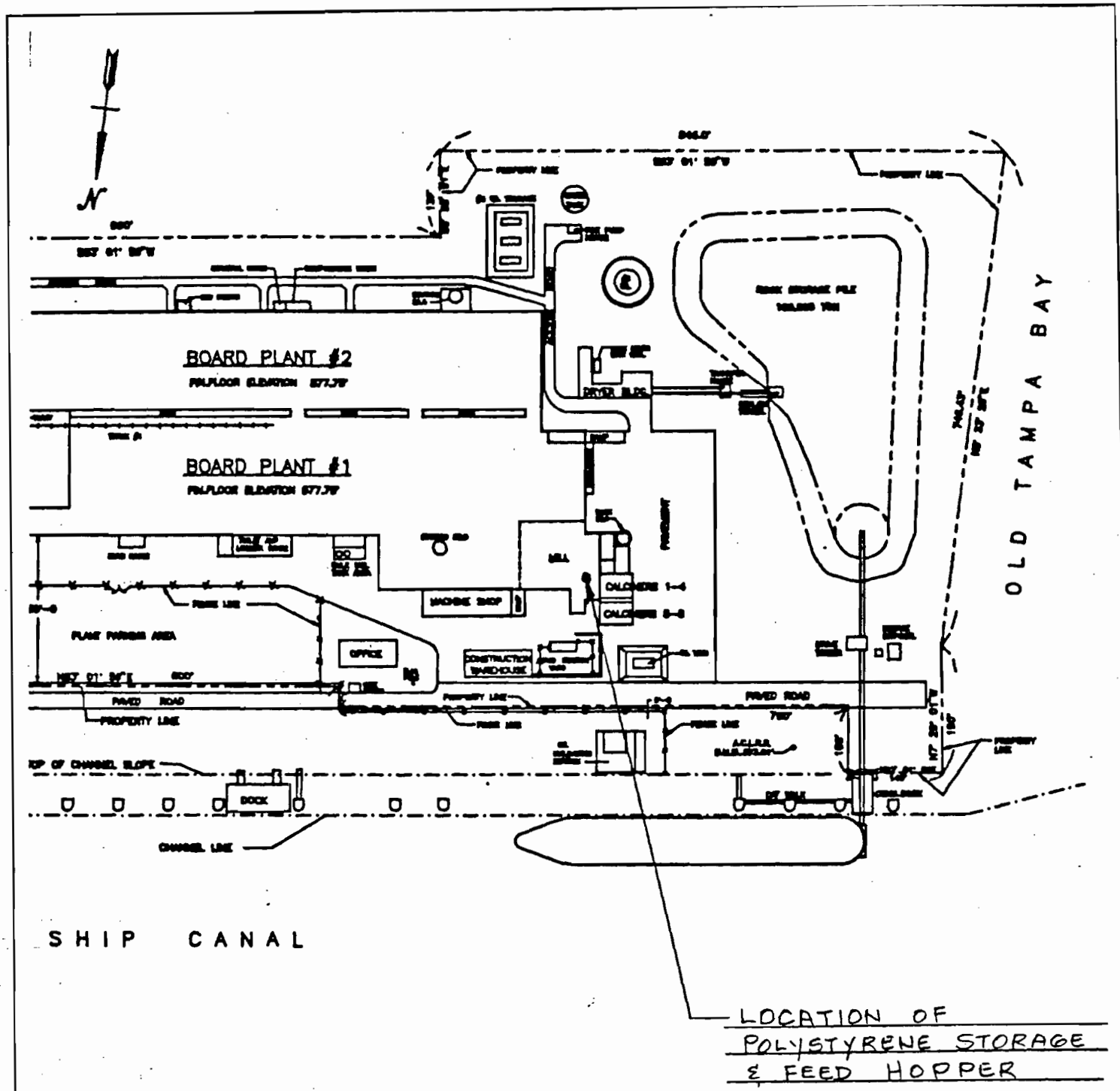
REV	BY	DATE	DESCRIPTION

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

POLYSTYRENE GRINDING & STORAGE

SCALE —	DATE
DRAWN DC	TAMPA
CHECK	SK 100588-2 REV.
APPD.	
PROJ.	

NG 7766



REV	BY	DATE	DESCRIPTION
			POLYSTYRENE STORAGE

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

SCALE	—
DRAWN	JC
CHECK	
APPD.	
PROJ.	
DATE	TAMPA
REV.	SK 100788-1

58-BU-9-#?
System 3

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

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Polystyrene Feed Hopper

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 Gold Bond Building Products 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. Furthe 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-transferab and I will promptly notify the department upon sale or legal transfer of the permitt establishment.

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

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

#3

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 P.H. Chheda

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
Mailing Address (Please Type)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

This is a Holding Hopper for ground polystyrene. It is blower fed with 360 CFM air and has a ~~90~~ 65 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 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 dust control = $15,000.00.

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

E. Requested permitted equipment operating time: hrs/dey 24 ; days/wk 7 ; wks/yr 52 ;

if power plant, hrs/yr_____; if seasonal, describe:_____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

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 Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to 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:

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

B. Process Rate, if applicable: (See Section 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 Contaminant	Emission[1]		Allowed[2] Emission Rate per Rule 17-2	Allowable[3] Emission lbs/hr	Potential[4] Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/~~xxx~~ Hr	T/yr	
Polystyrene Particulate	.09	.40	N/A	N/A	30.8	134.5	See Chart

[1]See Section V, Item 2.

[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)

[3]Calculated from operating rate and applicable standard.

[4]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.)	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

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ 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.

_____

_____

_____

_____

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 40 ft. Stack Diameter: 5"C ft.

Gas Flow Rate: 360 ACFM 360 DSCFM Gas Exit Temperature: Ambient °F.

Water Vapor Content: Ambient % Velocity: 44 FPS

SECTION IV: INCINERATOR INFORMATION N/A

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume $(ft)^3$	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: [ ] Cyclone [ ] Wet Scrubber [ ] Afterburner

[ ] Other (specify) _____

Brief description of operating characteristics of control devices:

Jet Pulse Baghouse

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, 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.

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 airborne 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.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

[ ] Yes [ ] No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

[ ] Yes [ ] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:
2. Operating Principles:
3. Efficiency:*
4. Capital Costs:

*Explain method of determining

5. Useful Life: N/A

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height: ft.

b. Diameter: ft.

c. Flow Rate: ACFM

d. Temperature: °F.

e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. 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.

a. 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:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes: N/A

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. 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:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1]

d. Capital Costs:

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:

F. Describe the control technology selected:

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 similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

(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

(8) Process Rate:[1]

10. Reason for selection and description of systems:

[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. _____no. sites _____ TSP _____( ) SO^{2}* _____ Wind spd/dir

Period of Monitoring _____/_____/_____ to _____/_____/_____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory N/A

a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No

b. Was instrumentation calibrated in accordance with Department procedures?

[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from ____/____/____ to ____/____/____
month day year month day year

2. Surface data obtained from (location)_____

3. Upper air (mixing height) data obtained from (location)_____

4. Stability wind rose (STAR) data obtained from (location)_____

C. 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 showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate	
TSP	_____	grams/sec
SO^2	_____	grams/sec

E. 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
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 ÷ 7000 =
   30.8 LBS/HR.
   TONS/YR = 30.8 #/HR x 8736 HRS ÷ 2000 =
   134.5 TONS/YR

4. Baghouse Air/Cloth Ratio = 360/~~90~~ 65 = 4.0 (5.5):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.

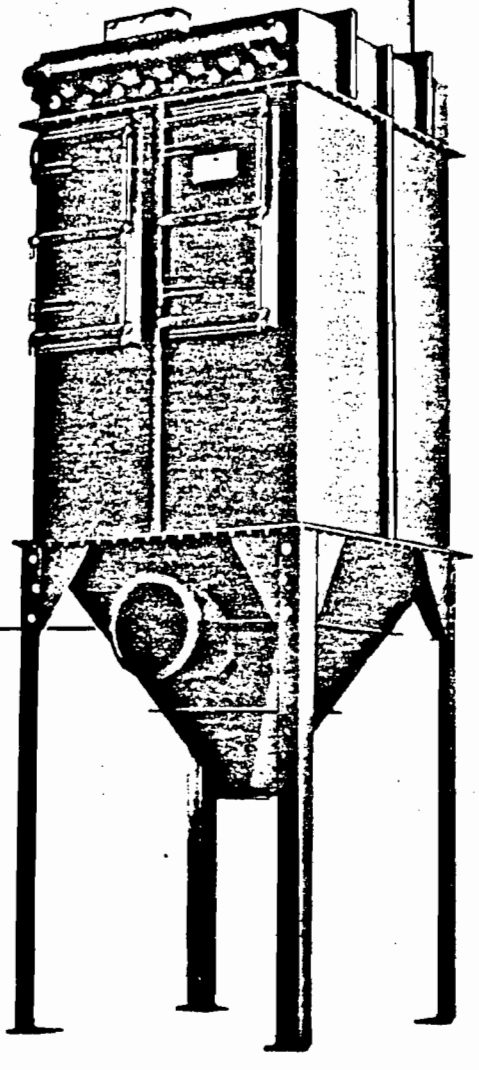
9. Application Fees: $365 County
   Attached $100 State

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.

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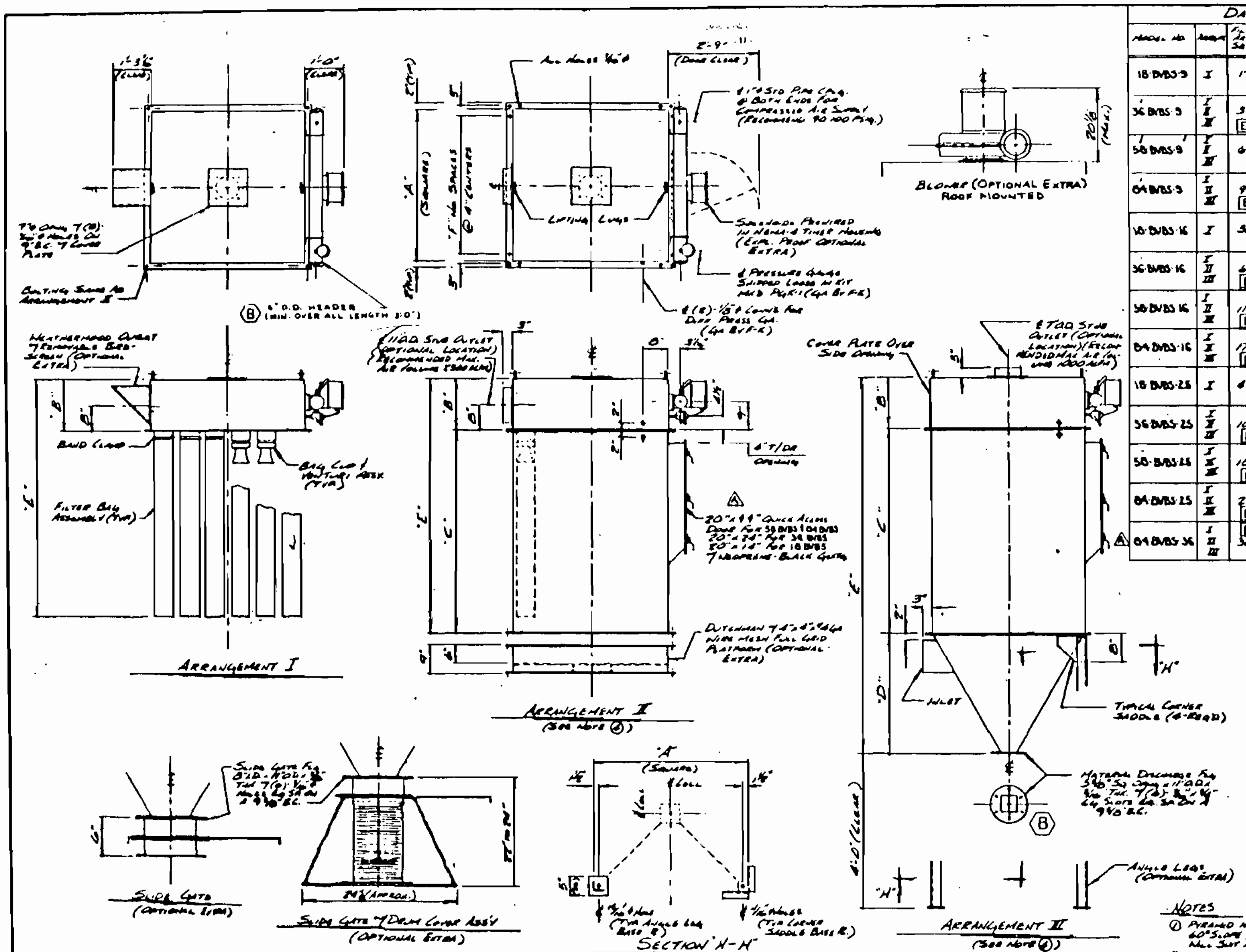


DATA							DIMENSIONS (WITHOUT OUTLET)						
Model No.	Arrgt.	Filter Area Sq. Ft.	No. of Bags	Bag Length (in)	No. Sol'd Valves	Comp. Air Req'd (SCFM)	A	B	C	D	E	F Bolt Spacing	Inlet Size
18-BVBS-9	I	17	9	18	3	4.0	7'-0"	1'-6"			7'-10"	5	
36-BVBS-9	I II III	33 [E]	9	36	3	4.2	7'-0"	1'-6"	6'-5" 5'-5"	1'-6"	5'-6" 4'-6" 5'-10"	5	6"
58-BVBS-9	I II III	65	9	58	3	4.5	7'-0"	1'-6"	5'-0" 5'-0"	1'-6"	6'-2" 6'-6" 7'-0"	5	6"
84-BVBS-9	I II III	95 [E]	9	84	3	5.0	7'-0"	1'-6"	7'-5" 7'-5"	1'-6"	8'-4" 8'-7" 9'-11"	5	6"
18-BVBS-16	I	30	16	18	4	5.2	7'-0"	1'-6"			7'-10"	7	
36-BVBS-16	I II III	69 [E]	16	36	4	5.5	7'-8"	1'-6"	5'-5" 5'-5"	1'-11"	4'-4" 4'-6" 6'-5"	7	8"
58-BVBS-16	I II III	115 [E]	16	58	4	5.8	7'-8"	1'-6"	5'-0" 5'-0"	1'-11"	6'-5" 6'-4" 8'-5"	7	8"
84-BVBS-16	I II III	170 [E]	16	84	4	6.2	7'-8"	1'-6"	7'-5" 7'-5"	1'-11"	8'-4" 8'-7" 10'-6"	7	8"
18-BVBS-25	I	47	25	18	5	6.3	9'-6"	1'-6"			7'-10"	9	
36-BVBS-25	I II III	106 [E]	25	36	5	6.5	9'-6"	1'-6"	5'-5" 5'-5"	2'-6"	4'-4" 4'-6" 7'-0"	9	10"
58-BVBS-25	I II III	180 [E]	25	58	5	6.7	9'-6"	1'-6"	5'-0" 5'-0"	2'-6"	6'-5" 6'-4" 8'-0"	9	10"
84-BVBS-25	I II III	265 [E]	25	84	5	7.0	9'-6"	1'-6"	7'-5" 7'-5"	2'-6"	8'-4" 8'-7" 11'-1"	9	10"
△ 84-BVBS-36	I II III	[E] 382	36	84	6	8.5	4'-0"	1'-6"	7'-3" 7'-3"	3'-1"	8'-4" 8'-7" 11'-8"	11	12"

(B)

Notes

1. Pyramid hopper height is based on 60° slope & material discharge being that will suit an 8" airlock.
2. Design pressure is ±17"W.G.
3. Drawing to be used for general arrangement only. Not to be used for construction unless certified.
4. When Dutchman & grid is included & unit, the model is designated as "Arr. II 4" or "Arr. III 4".

Mark	Revision
E	Rev. filter data.
D	Rev. door clear. (was ...)
C	Revise model designation from "BVS" to "BVBS"
B	Revised inlet size for 36-BVBS; bolt hole arrangement for mat'l disch. flg.; added header note to plan view
A	Revised door size for 58 & 84 BVS units. Added 84-BVBS-36 unit to stock series

This drawing supersedes A-70F-136

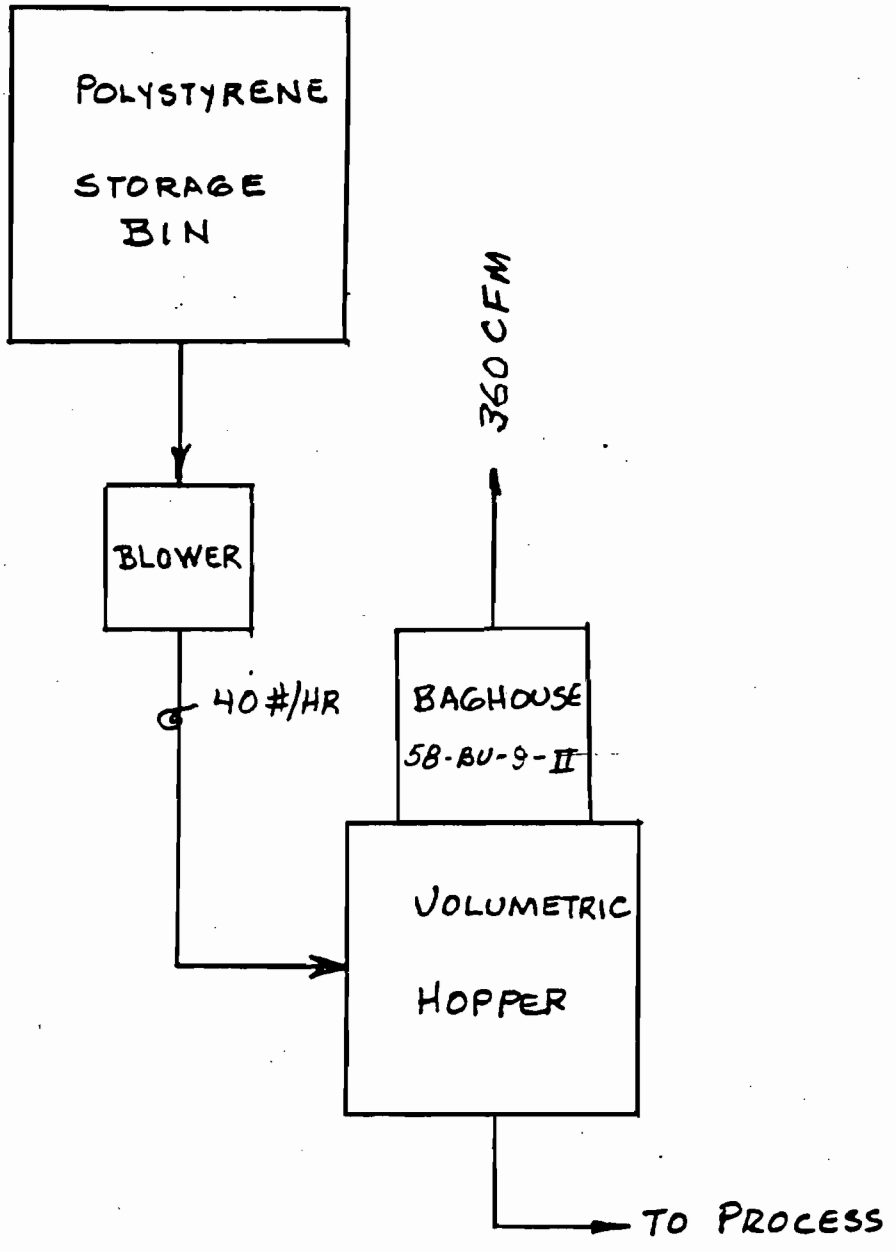
FLEX-KLEEN Corporation
Subsidiary of Research-Cottrell, Inc.
Riverside Plaza, Chicago, Illinois

Scale: NTS
Date: 4-14-7?

GENERAL DATA

Model: Stock "BVBS" Series — A-75F-5

130-16-0021E



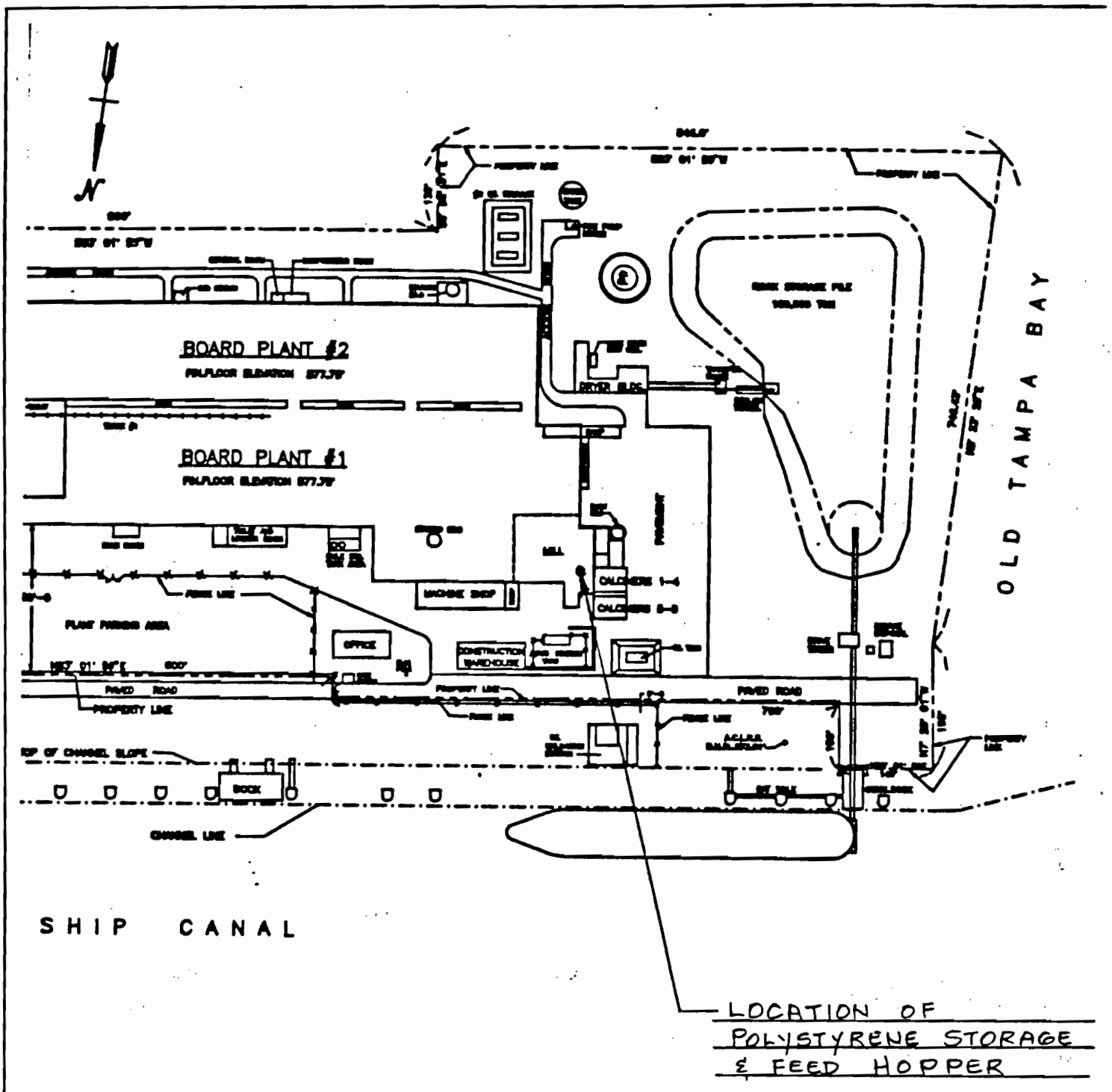
REV	BY	DATE	DESCRIPTION

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

POLYSTYRENE TRANSPORT

SCALE	—	DATE	10 - 5 - 88
DRAWN	DC		TAMPA
CHECK		SK 100588-3	REV.
APPD.			
PROJ.			

NO 7766



REV	BY	DATE	DESCRIPTION
			POLYSTYRENE STORAGE

Gold Bond Building Products
A Rennaissance Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

SCALE	—
DRAWN	JC
CHECK	
APPD.	
DATE	TAMPA
REV.	SK100788-1

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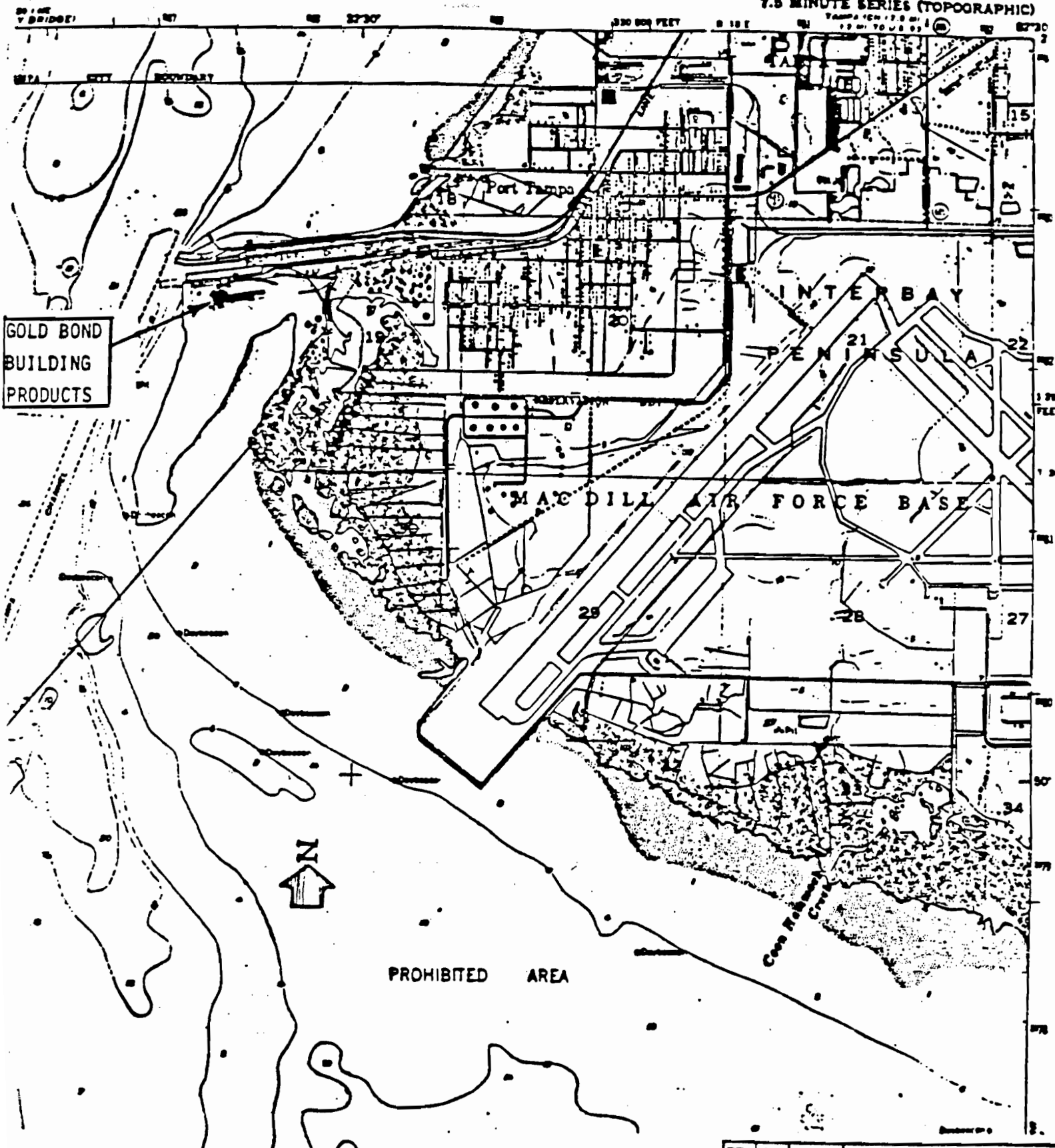


REV	BY	DATE	DESCRIPTION

TAMPA PLANT
TOPOGRAPHICAL LOCATION

SCALE None	DATE
DRAWN ASL	Tampa, FL
CHECK DBC	

GI Gold Bond Building Products

SYSTEM 4

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

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound 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 Gold Bond Building Product 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. Furthe 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-transferab and I will promptly notify the department upon sale or legal transfer of the permitt establishment.

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

[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 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 P. H. Chheda

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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 180/250 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

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

if power plant, hrs/yr_____; if seasonal, describe:_____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

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 Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? no

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? 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.

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

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

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 Contaminant	Emission[1]		Allowed[2] Emission Rate per Rule 17-2	Allowable[3] Emission lbs/hr	Potential[4] Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Particulate	0.18	0.78	N/A	N/A	90.0	393.0	

[1]See Section V, Item 2.

[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)

[3]Calculated from operating rate and applicable standard.

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

D. Control Devicee: (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-BV-25-II	Particulate	99%+	Unknown	See chart

E. Fuels N/A

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

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

Fuel Analysis:

Percent Sulfur:_____ Percent Ash:_____

Density: _____ lbs/gal Typical Percent Nitrogen:_____

Heat Capacity: _____ BTU/lb _____ 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.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 45 ft. Stack Diameter: 7" diameter ~~xxx~~ ft.

Gas Flow Rate: 700 ACFM 700 DSCFM Gas Exit Temperature: ambient °F.

Water Vapor Content: ambient % Velocity: 44 FPS

SECTION IV: INCINERATOR INFORMATION

N/A

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume $(ft)^3$	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diamter: _____ Steck Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: [ ] Cyclone [ ] Wet Scrubber [ ] Afterburner

[ ] Other (specify) _____

Brief description of operating characteristics of control devices: Jet-Pulse Baghouse

Ultimate disposal of any effluent other then that emitted from the stack (scrubber water, ash, 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.

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 airborne 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.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

[ ] Yes [ ] No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

[ ] Yes [ ] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:
2. Operating Principles:
3. Efficiency:*
4. Capital Costs:

*Explain method of determining

5. Useful Life: N/A

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height: ft.

b. Diameter: ft.

c. Flow Rate: ACFM

d. Temperature: °F.

e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. 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.

a. 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:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes: N/A

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. 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:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1]

d. Capital Costs:

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:

F. Describe the control technology selected:

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 similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

(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

(8) Process Rate:[1]

10. Reason for selection and description of systems:

[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 N/A

A. Company Monitored Data

1. _____no. sites _____ TSP _____( ) SO^{2}* _____ Wind spd/dir

Period of Monitoring ____/____/____ to ____/____/____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory N/A

a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No

b. Was instrumentation calibrated in accordance with Department procedures?

[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from ____/____/____ to ____/____/____
month day year month day year

2. Surface data obtained from (location)_____

3. Upper air (mixing height) data obtained from (location)_____

4. Stability wind rose (STAR) data obtained from (location)_____

C. Computer Models Used

1. _____ Modified? If yes, attach deecription.

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 showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate	
TSP	_____	grams/sec
SO^2	_____	grams/sec

E. 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
DRY MIXING

1. Process Rate

   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 ÷ 7000 = 90 LBS/HR.
   TONS/YR = 90#/HR x 8736 HRS ÷ 2000 = 393 TONS/YR

4. Baghouse Air/Cloth Ratio = 700/175 = 3.9 = 4.0:1

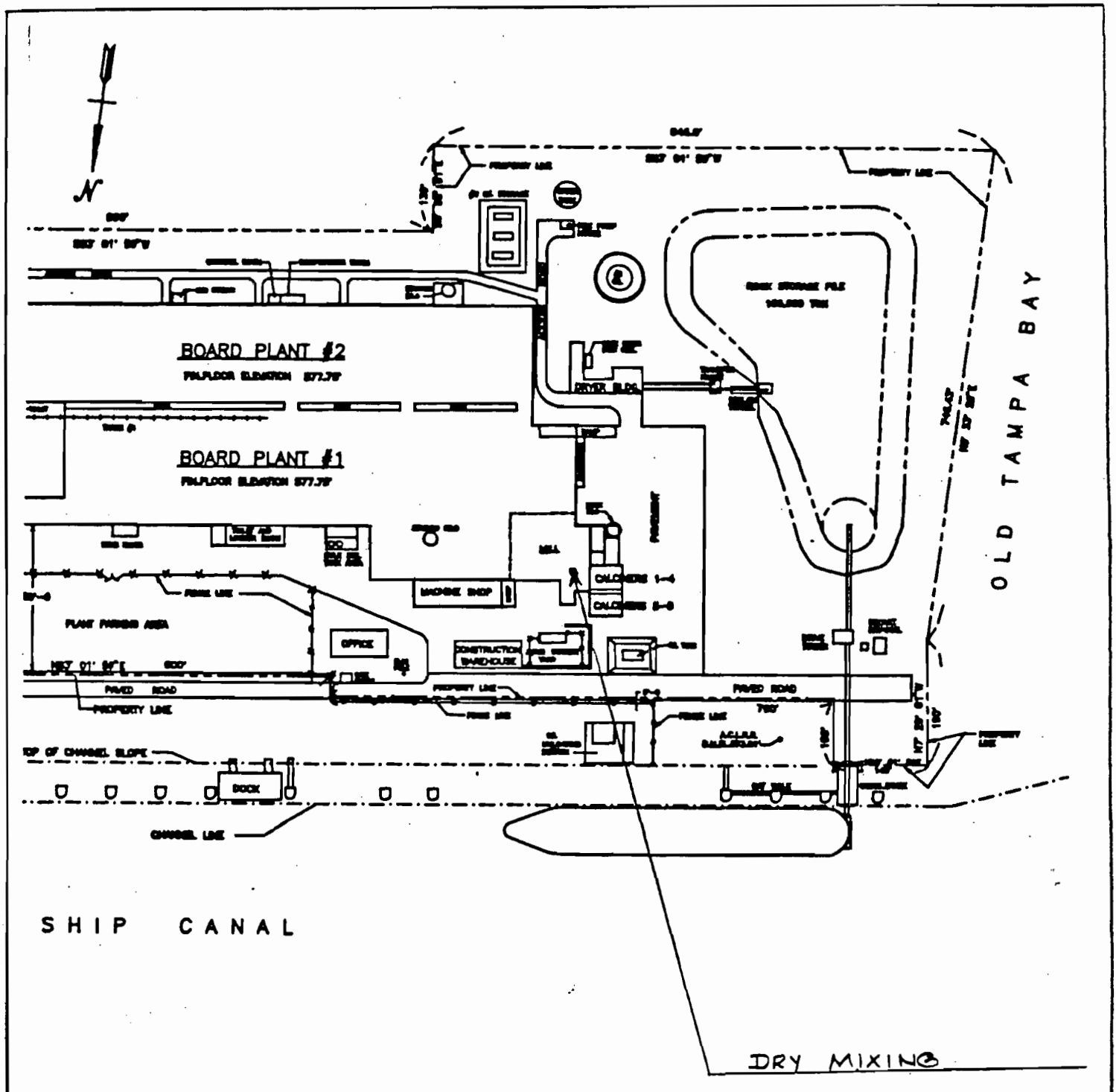
5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.

6. Flow chart attached.

7. Plot plan (plant location) attached.

8. Plot plan (equipment location) attached.

9. Application Fees: $365 County
   Attached $100 State

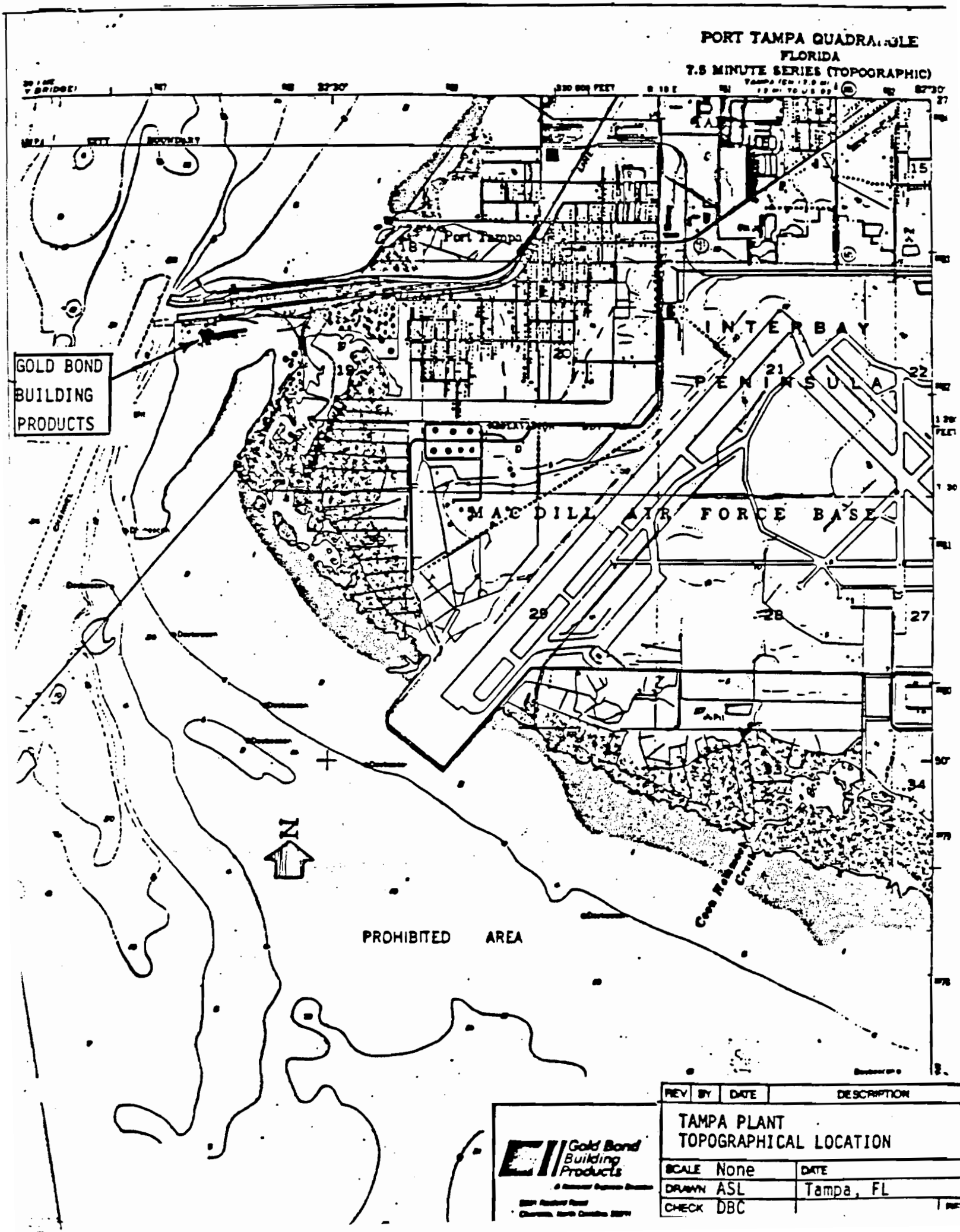


REV	BY	DATE	DESCRIPTION
			JOINT COMPOUND "DRY MIXING"

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

SCALE	—
DRAWN	DC
CHECK	
APPD.	
PROJ.	
DATE	TAMPA
REV.	SK 101088-1

NO 7166

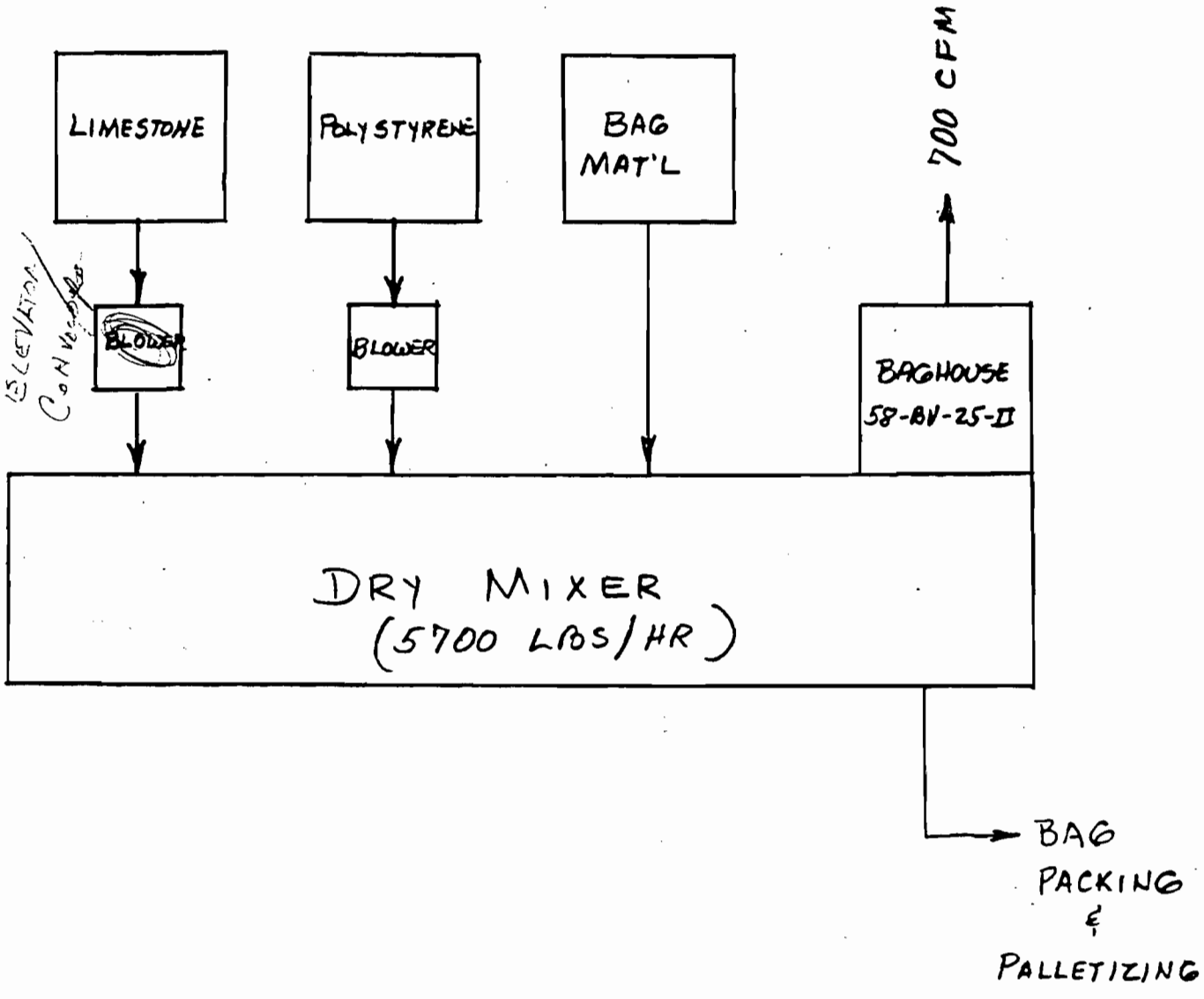


REV	BY	DATE	DESCRIPTION

Gold Bond Building Products

TAMPA PLANT
TOPOGRAPHICAL LOCATION

SCALE	None	DATE	
DRAWN	ASL		Tampa, FL
CHECK	DBC		



REV	BY	DATE	DESCRIPTION

Gold Bond Building Products
A National Gypsum Division
3001 Rexford Road
Charlotte, North Carolina 28211

DRY MIXING & PACKING

SCALE —	DATE
DRAWN DC	TAMPA
CHECK	SK-100588-4
APPD.	REV.
PROJ.	

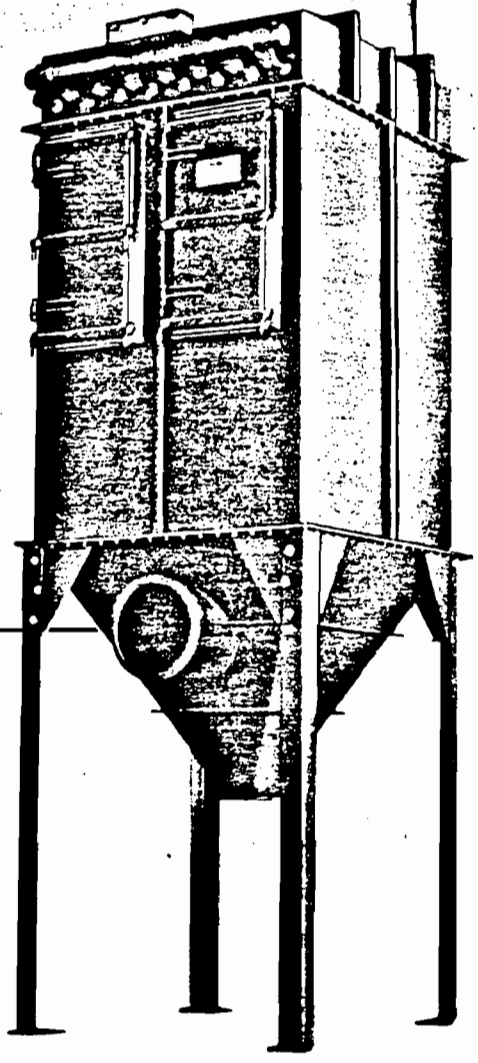
NO 7760

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.



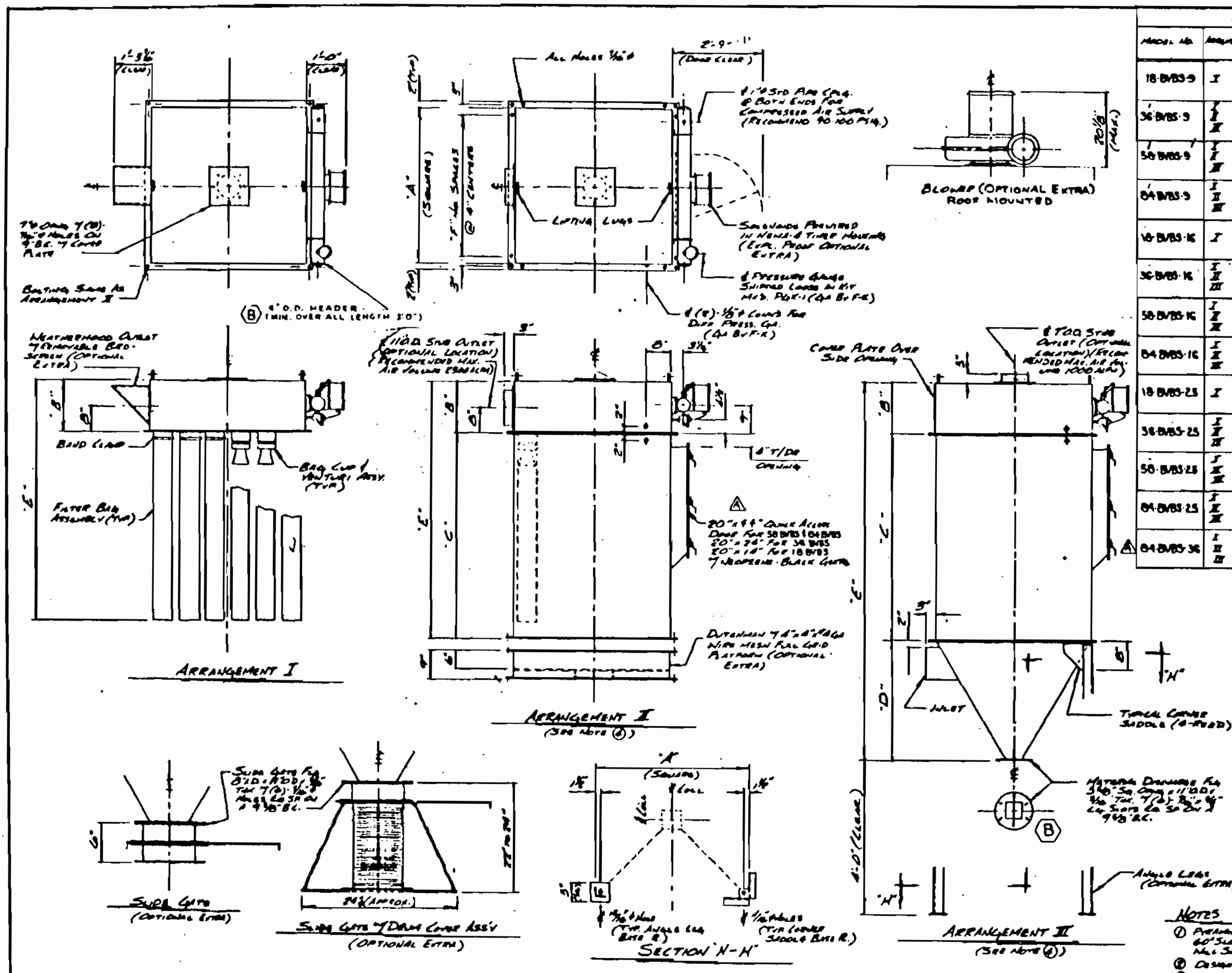
Features

- 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



DATA							DIMENSIONS (WITHOUT DUTCHMAN)							
MODEL NO.	ARRGMT	FILTER AREA SQ FT.	NO. OF BAGS	BAG LENGTH (IN.)	NO. SOLID VALVES	COMP. AIR FLOW (SCFM)	A	B	C	D	E	F BOLT SPACING	INLET SIZE	GROSS WT (LBS)
18-BVBS-9	I	17	9	18	3	4.0	2'-0"	1'-6"			2'-10"	5		200
36-BVBS-9	I II III	33 [E]	9	36	3	4.2	2'-0"	1'-6"	6'-5" 5'-5"	1'-8"	4'-4" 4'-6" 3'-10"	5	6"	200 325 375
58-BVBS-9	I II III	65	9	58	3	4.3	2'-0"	1'-6"	5'-0" 5'-0"	1'-8"	6'-2" 6'-5" 7'-8"	5	6"	225 425 475
84-BVBS-9	I II III	95 [E]	9	84	3	5.0	2'-6"	1'-6"	7'-3" 7'-5"	1'-8"	8'-8" 8'-7" 9'-11"	5	6"	275 500 550
18-BVBS-16	I	30	16	18	4	5.2	2'-8"	1'-4"			2'-10"	7		275
36-BVBS-16	I II III	63 [E]	16	36	4	5.5	2'-8"	1'-4"	5'-5" 5'-5"	1'-11"	4'-4" 4'-6" 6'-5"	7	8"	300 475 550
58-BVBS-16	I II III	115 [E]	16	58	4	5.8	2'-8"	1'-4"	5'-0" 5'-0"	1'-11"	6'-5" 6'-4" 8'-5"	7	8"	375 600 675
84-BVBS-16	I II III	170 [E]	16	84	4	6.2	2'-8"	1'-4"	7'-5" 7'-5"	1'-11"	8'-4" 8'-7" 10'-6"	7	8"	350 775 800
18-BVBS-25	I	47	25	18	5	6.3	3'-4"	1'-4"			2'-10"	9		375
36-BVBS-25	I II III	108 [E]	25	36	5	6.4	3'-4"	1'-4"	5'-5" 5'-5"	2'-6"	4'-4" 4'-6" 7'-0"	9	10"	400 675 775
58-BVBS-25	I II III	180 [E]	25	58	5	6.7	3'-4"	1'-4"	5'-0" 5'-0"	2'-6"	6'-5" 6'-4" 8'-10"	9	10"	475 775 875
84-BVBS-25	I II III	265 [E]	25	84	5	7.0	3'-4"	1'-6"	7'-5" 7'-5"	2'-6"	8'-4" 8'-7" 11'-1"	9	10"	475 950 1050
84-BVBS-36	I II III	[E] 382	36	84	6	8.5	4'-0"	1'-4"	7'-3" 7'-3"	3'-1"	8'-4" 8'-7" 11'-8"	11	12"	675 1230 1400

NOTES

1. PYRAMID HOPPER HEIGHT IS BASED ON 60° SLOPE & MATERIAL DISCHARGE OPENING THAT WILL SUIT AN 8" AIRLOCK.
2. DESIGN PRESSURE IS ±17" W.G.
3. DRAWING TO BE USED FOR GENERAL ARRANGEMENT ONLY, NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED.
4. WHEN DUTCHMAN & GRID IS INCLUDED W/ UNIT, THE MODEL IS DESIGNATED AS "ARR. II G" OR "ARR. III G"

MARK	REVISION	DATE	BY
E	REV. FILTER DATA.	8-18-81	
D	REV. DOOR CLEAR. (WAS 2'7")		
C	REVISE MODEL DESIGNATION FROM 'BVS' TO 'BVBS'	1-16-80	
B	REVISED INLET SIZE FOR 84-BVS-36; BOLT HOLE ARRGM'T FOR MAT'L DISCH. FLG; ADDED HEADER NOTE TO PLAN VIEW	5-1-79	
A	REVISED DOOR SIZE FOR 58 & 84 BVS UNITS. ADDED 84-BVS-36 UNIT TO STOCK SERIES		

FLEX-KLEEN CORPORATION

DRAWN ATS — DATE 4-14-78

GENERAL DATA

THIS DRAWING SUPERCEDES A-70F-136

MODEL STOCK "BVBS" SERIES — A-75F-55 — E

130-16-0021E

(123) System 5

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

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

DER BAQM

SOURCE TYPE: Air Pollution [X] New[1] [ ] Existing[1]

APPLICATION TYPE: [X] Construction [ ] Operation [ ] Modification

COMPANY NAME: Gold Bond Building Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Wet Mixer

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 Gold Bond Building Produc Division of National Gyps Company Construction

I certify that the statements made in this application for a permit are true, correct and complete to the best of my knowledge and belief. Furth I agree to maintain and operate the pollution control source and pollution cont 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-transferab and I will promptly notify the department upon sale or legal transfer of the permit establishment.

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

[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 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 PHChheda

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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 wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction Dec. 1, 1988 Completion of Construction Jan. 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 is $15,000

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

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

if power plant, hrs/yr_____; if seasonal, describe:_____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

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 Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? no

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? 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.

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

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

1. Total Process Input Rate (lbs/hr): 6600 LBS/HR

2. Product Weight (lbs/hr): 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 Contaminant	Emission[1]		Allowed[2] Emission Rate per Rule 17-2	Allowable[3] Emission lbs/hr	Potential[4] Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Particulate	0.18	0.78	N/A	N/A	90	393	

[1]See Section V, Item 2.

[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)

[3]Calculated from operating rate and applicable standard.

[4]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.)	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

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ 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.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 45 ft. Stack Diameter: 7" ø ~~ft~~.

Gas Flow Rate: 700 ACFM 700 DSCFM Gas Exit Temperature: ambient °F.

Water Vapor Content: ambient % Velocity: 44 FPS

SECTION IV: INCINERATOR INFORMATION

N/A

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume $(ft)^3$	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diamter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: [ ] Cyclone [ ] Wet Scrubber [ ] Afterburner

[ ] Other (specify) _____

Brief description of operating characteristics of control devices:

JET PULSE BAGHOUSE

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, 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

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 consistant: 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 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.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

[ ] Yes [ ] No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

[ ] Yes [ ] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:
2. Operating Principles:
3. Efficiency:*
4. Capital Costs:

*Explain method of determining

N/A

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height: ft.

b. Diameter: ft.

c. Flow Rate: ACFM

d. Temperature: °F.

e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. 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.

a. 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:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes: N/A

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. 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:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1]

d. Capital Costs:

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:

F. Describe the control technology selected:

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 similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

(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

(8) Process Rate:[1]

10. Reason for selection and description of systems:

[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. _____ no. sites _____ TSP _____ ( ) SO^{2*} _____ Wind spd/dir

Period of Monitoring ___/___/___ to ___/___/___
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory N/A

a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No

b. Was instrumentation calibrated in accordance with Department procedures?

[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from ____/____/____ to ____/____/____
month day year month day year

2. Surface data obtained from (location)_____

3. Upper air (mixing height) data obtained from (location)_____

4. Stability wind rose (STAR) data obtained from (location)_____

C. 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 showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate	
TSP	_____	grams/sec
SO^2	_____	grams/sec

E. 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
WET MIXING

1. Process Rate

   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 ÷ 7000 =
   90 LBS/HR.
   TONS/YR = 90#/HR x 8736 HRS ÷ 2000 =
   393 TONS/YR

4. Baghouse Air/Cloth Ratio = 700/175 = 4.0:1

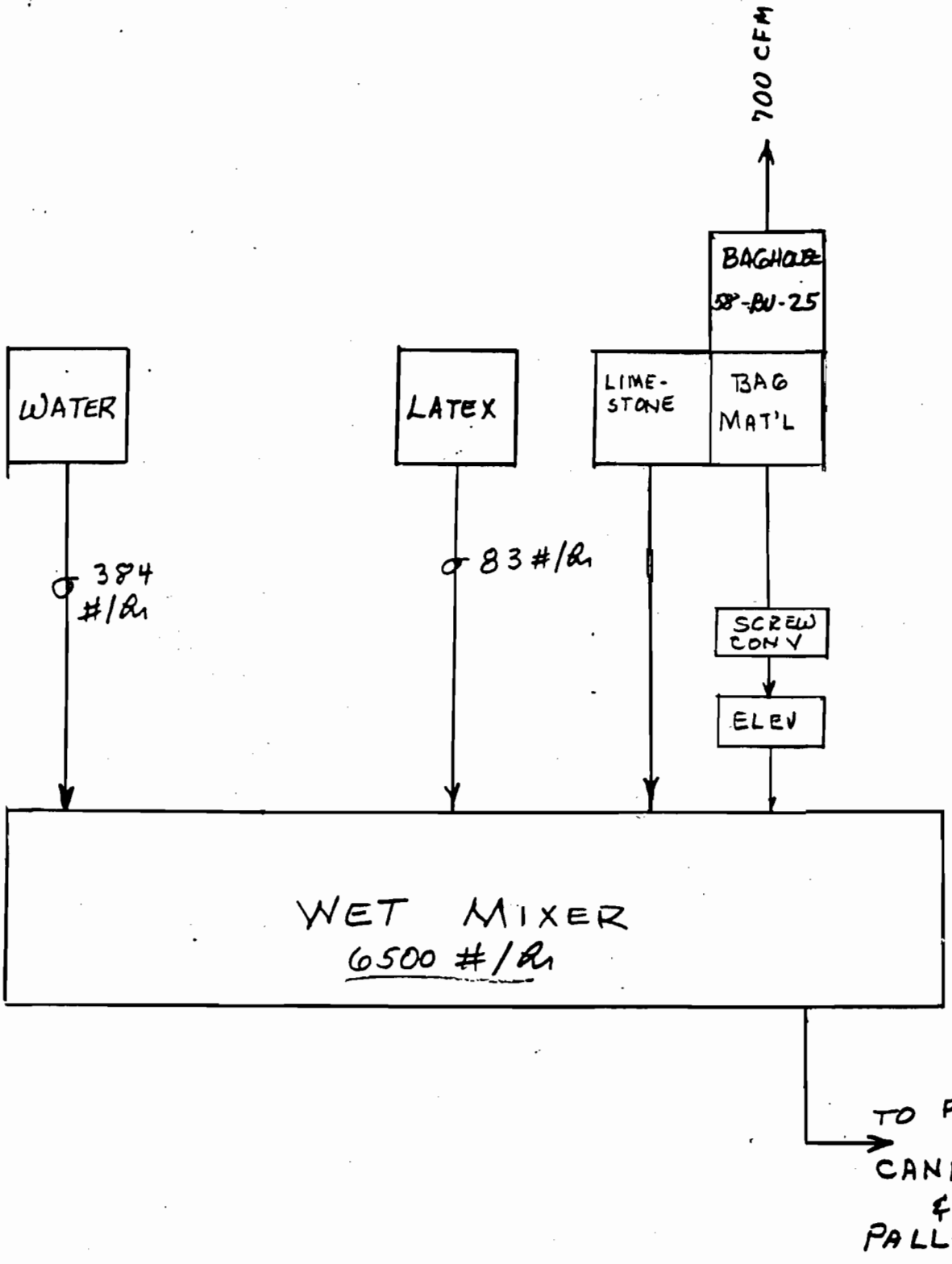
5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.

6. Flow chart attached.

7. Plot plan (plant location) attached.

8. Plot plan (equipment location) attached.

9. Application Fees: $365 County
   Attached $100 State



REV	BY	DATE	DESCRIPTION

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

WET MIXING & PACKING

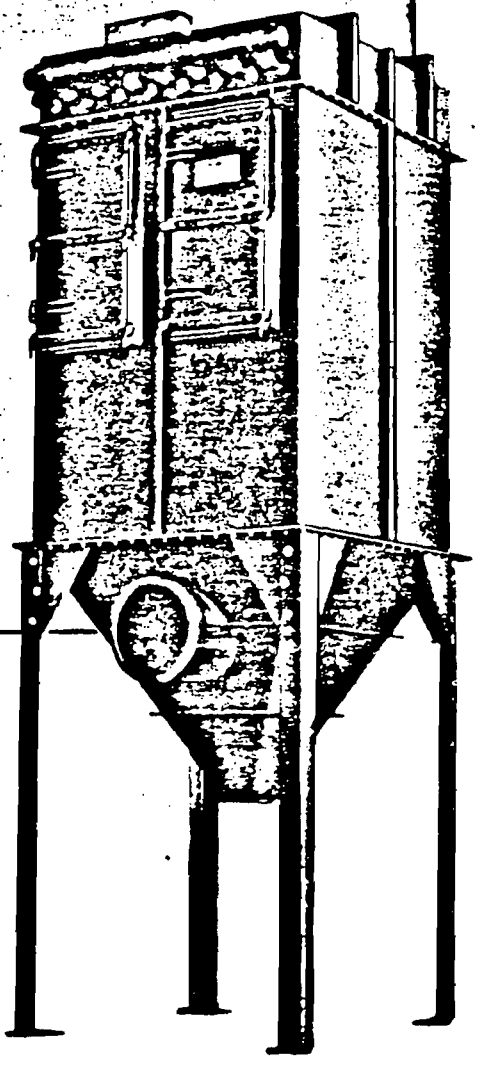
SCALE —	DATE
DRAWN DC	TAMPA
CHECK	SK 100588-5 REV.
APPD.	
PROJ.	

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.

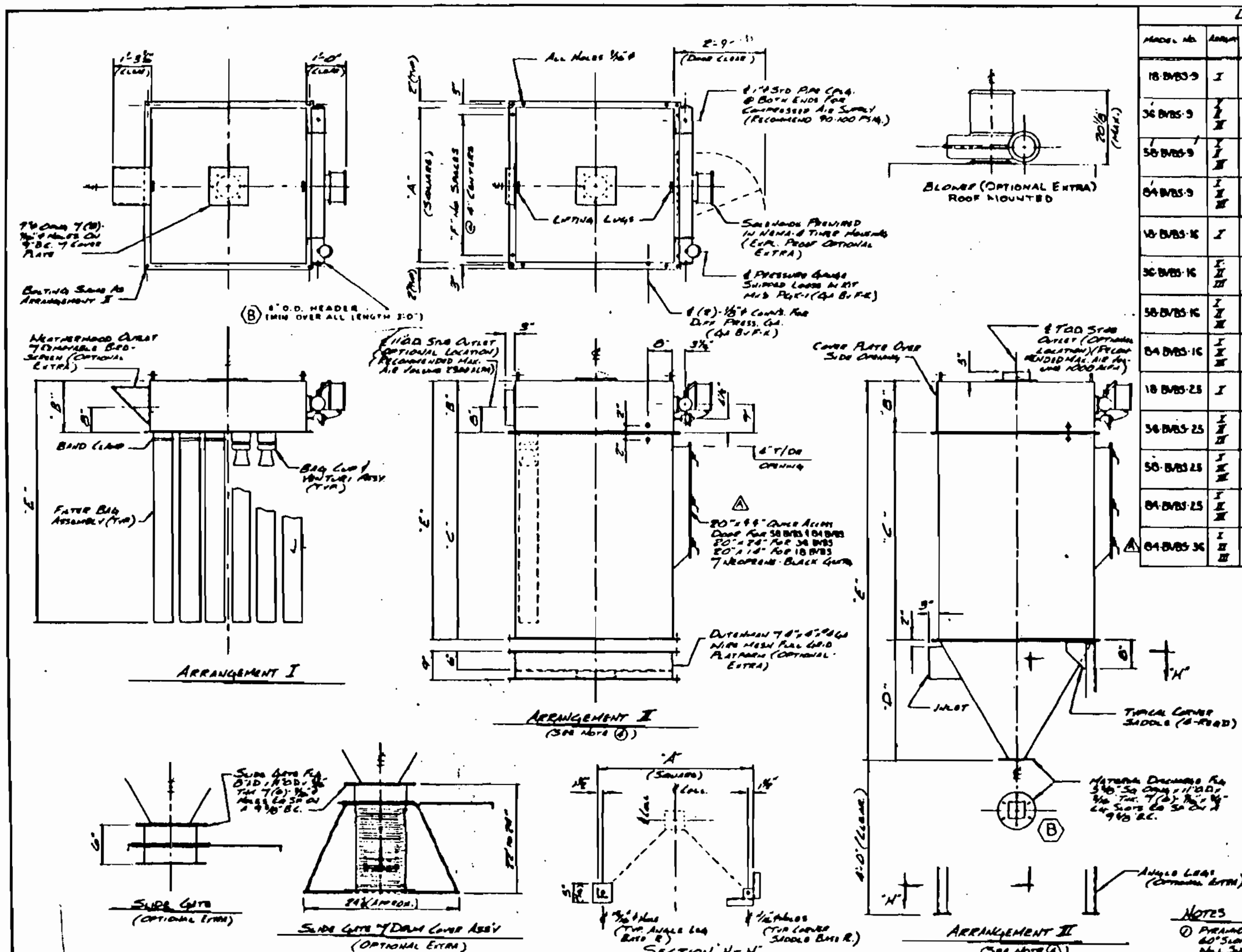


Features

- 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.



Model No.	Arrgm.	Filter Area Sq. Ft.	No. of Bags	Bag Length (in)	No. Sol'd Valves	Cloth to Air Ratio (SCFM)	A	B	C	D	E	F Bolt Spacing	Inlet Size	Gross Wt (Lbs)
18-BVBS-9	I	17	9	18	3	4.0	5'-0"	1'-8"			5'-10"	5		800
36-BVBS-9	I II III	33 [E]	9	36	3	4.8	5'-0"	1'-8"	6'-8" 3'-8"	1'-8"	4'-4" 4'-6" 5'-10"	5	6"	200 325 375
58-BVBS-9	I II III	65	9	58	3	4.5	5'-0"	1'-4"	5'-0" 5'-0"	1'-8"	6'-2" 6'-4" 7'-8"	5	6"	275 475 475
84-BVBS-9	I II III	95 [E]	9	84	3	5.0	5'-0"	1'-8"	7'-3" 7'-3"	1'-8"	8'-4" 8'-7" 9'-11"	5	6"	275 500 550
18-BVBS-16	I	30	16	18	4	5.8	5'-8"	1'-8"			5'-10"	7		875
36-BVBS-16	I II III	63 [E]	16	36	4	5.3	5'-8"	1'-8"	5'-8" 5'-8"	1'-11"	4'-4" 4'-6" 6'-5"	7	8"	300 475 550
58-BVBS-16	I II III	115 [E]	16	58	4	5.8	5'-8"	1'-4"	5'-0" 5'-0"	1'-11"	6'-2" 6'-4" 8'-5"	7	8"	375 600 675
84-BVBS-16	I II III	170 [E]	16	84	4	6.2	5'-8"	1'-8"	7'-5" 7'-5"	1'-11"	8'-4" 8'-7" 10'-6"	7	8"	550 775 800
18-BVBS-25	I	47	25	18	5	6.3	5'-8"	1'-8"			5'-10"	9		975
36-BVBS-25	I II III	108 [E]	25	36	5	6.5	5'-6"	1'-4"	5'-8" 5'-8"	2'-6"	4'-4" 4'-6" 7'-0"	9	10"	400 675 775
58-BVBS-25	I II III	180 [E]	25	58	5	6.7	5'-8"	1'-8"	5'-0" 5'-0"	2'-6"	6'-2" 6'-4" 8'-10"	9	10"	475 775 875
84-BVBS-25	I II III	265 [E]	25	84	5	7.0	5'-4"	1'-8"	7'-5" 7'-5"	2'-6"	8'-4" 8'-7" 11'-1"	9	10"	675 950 1050
84-BVBS-36	I II III	[E] 382	36	84	6	8.5	4'-0"	1'-4"	7'-3" 7'-3"	3'-1"	8'-4" 8'-7" 11'-8"	11	12"	675 1230 1400

Notes

1. Pyramid hopper height is based on 60° slope & material discharge opng. that will suit an 8" airlock.
2. Design pressure is ±17" W.G.
3. Drawing to be used for general arrangement only, not to be used for construction unless certified.
4. When Dutchman & grid is included w/ unit, the model is designated as "Arr. II 4" or "Arr. III 4".

Mark	Revision	Date	By
E	REV. FILTER DATA.	8-20-81	
D	REV. DOOR CLEAR. (WAS 1'-7")		
C	REVISE MODEL DESIGNATION FROM "BVS" TO "BVBS"	1-16-80	
B	REVISED INLET SIZE FOR 84-BVS-36, BOLT HOLE ARRGM'T FOR MAT'L DISCH. FLG. & ADDED HEADER NOTE TO PLAN VIEW	1-1-79	
A	REVISED DOOR SIZE FOR 58 & 84 BVS UNITS. ADDED 84-BVS-36 UNIT TO STOCK SERIES		

FLEX-KLEEN CORPORATION

Subsidiary of Research-Cottrell, Inc.

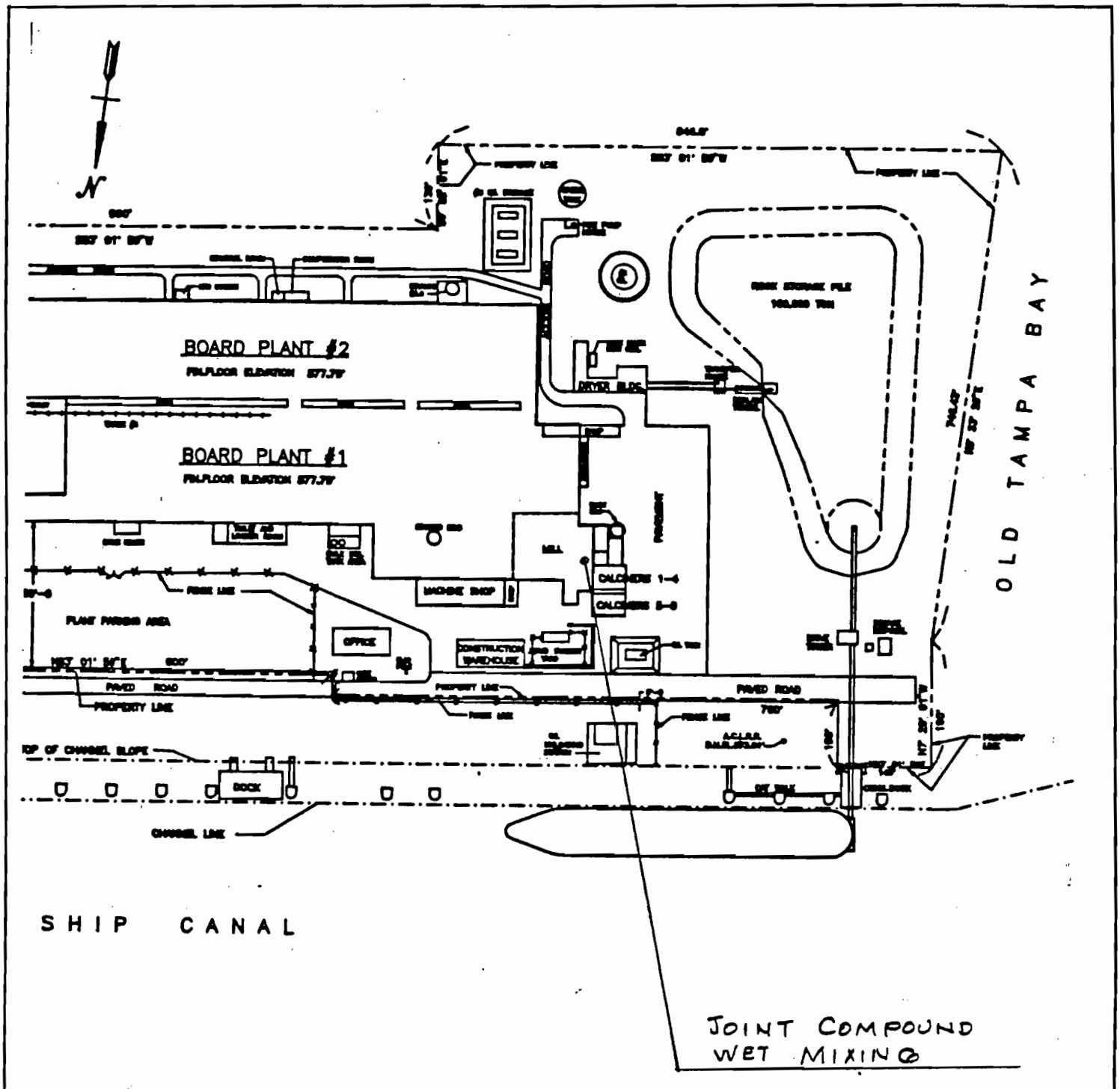
Scale: N.T.S. Date: 4-14-75

GENERAL DATA

This drawing supercedes A-70F-136

Model: Stock BVBS Series — A-75F-55 — E

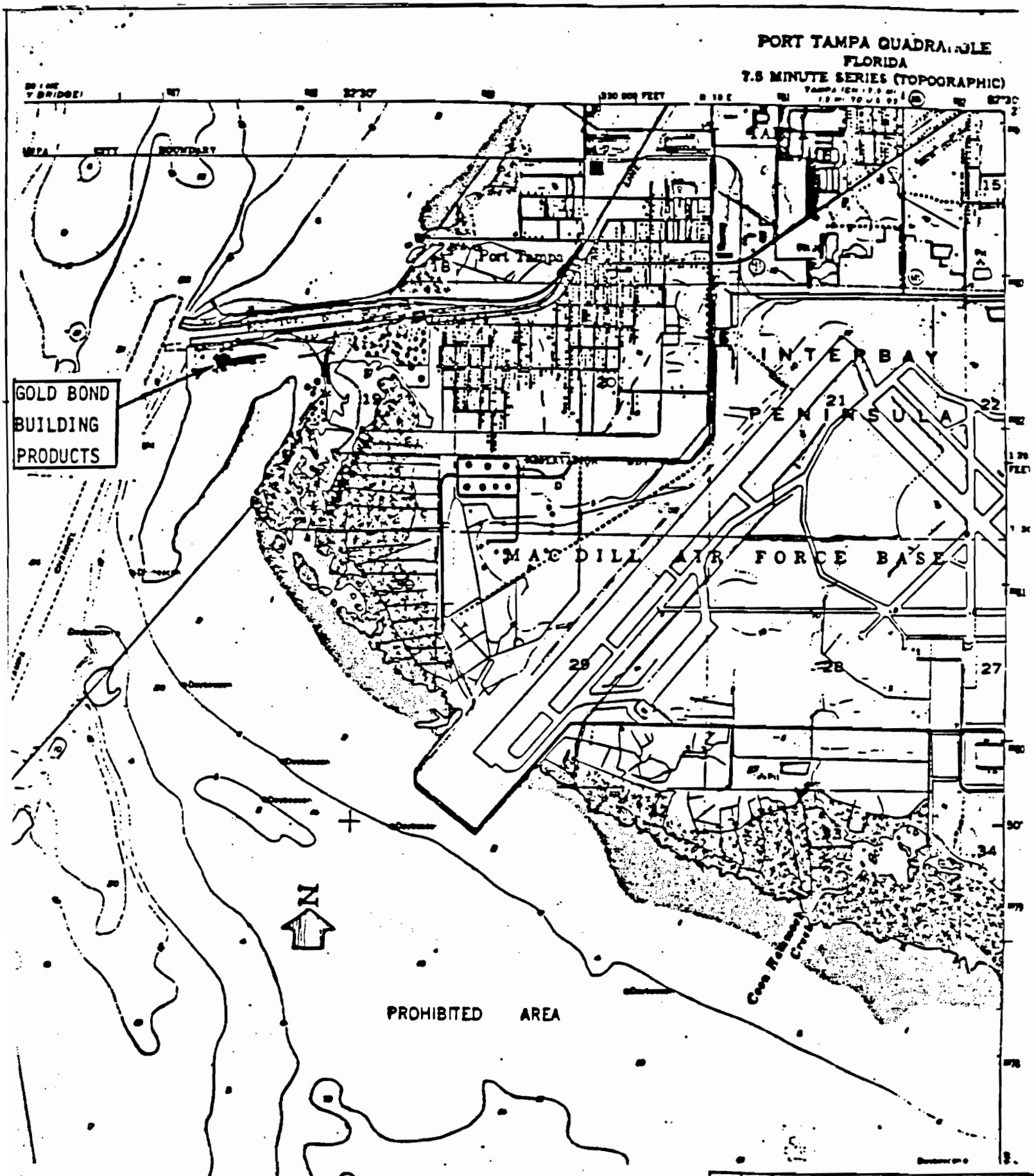
130-16-0021E



REV	BY	DATE	DESCRIPTION
			JOINT COMPOUND WET MIXING

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

SCALE	—	DATE	
DRAWN	JC	TAMPA	
CHECK		SK 101088 - 2	REV.
APPD.			
PROJ.			



REV	BY	DATE	DESCRIPTION

Gold Bond Building Products

TAMPA PLANT
TOPOGRAPHICAL LOCATION

SCALE	None	DATE	
DRAWN	ASL		Tampa, FL
CHECK	DRC		

SYSTEM 6

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

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Main Dust Collector

SOURCE LOCATION: Street 6110 Commerce Street City Port Tampa

UTM: East 17-347.3 North 3.082.7

Latitude 27 ° 52 ' ___ "N Longitude 82 ° 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 Gold Bond Building Product Division of National Gypsu Company Construction

I certify that the statements made in this application for a 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: _____

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

[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 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 P.H. Chheda

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

This is the primary dust collector for the Dry Bag Material Handling and mixing. It has 1280 square feet fabric and vents 5120 CFM and 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 the installed pollution control equipment = $60,000.00.

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

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

if power plant, hrs/yr_____; if seasonal, describe:_____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

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 Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? 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.

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

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

1. Total Process Input Rate (lbs/hr): 12,300

2. Product Weight (lbs/hr): 12,300

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

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

[1]See Section V, Item 2.

[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)

[3]Calculated from operating rate and applicable standard.

[4]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.)	Contaminant	Efficiency	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

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

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

Fuel Analysis: N/A

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ 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.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 45 ft. Stack Diameter: 18"0 ft.

Gas Flow Rate: 5120 ACFM 5120 DSCFM Gas Exit Temperature: Ambient °F.

Water Vapor Content: Ambient % Velocity: 48.2 FPS

SECTION IV: INCINERATOR INFORMATION N/A

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume $(ft)^3$	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: [ ] Cyclone [ ] Wet Scrubber [ ] Afterburner

[ ] Other (specify) _____

Brief description of operating characteristics of control devices:

Jet-Pulse Baghouse

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, 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.

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 airborne 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.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

[ ] Yes [ ] No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

[ ] Yes [ ] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:
2. Operating Principles:
3. Efficiency:*
4. Capital Costs:

*Explain method of determining

5. Useful Life: N/A

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height: ft.

b. Diameter: ft.

c. Flow Rate: ACFM

d. Temperature: °F.

e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. 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.

a. 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:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes: N/A

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. 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:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1]

d. Capital Costs:

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:

F. Describe the control technology selected:

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 similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

(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

(8) Process Rate:[1]

10. Reason for selection and description of systems:

[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 N/A

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ ( ) SO^{2}* _____ Wind spd/dir

Period of Monitoring ____/____/____ to ____/____/____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory N/A

a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No

b. Was instrumentation calibrated in accordance with Department procedures?

[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from ____/____/____ to ____/____/____
month day year month day year

2. Surface data obtained from (location)_____

3. Upper air (mixing height) data obtained from (location)_____

4. Stability wind rose (STAR) data obtained from (location)_____

C. 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 showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO^2	_____ grams/sec

E. 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
LIMESTONE SUPLY BIN

1. Process Rate

   Loading Rate 20,000 LBS/HR.

2. Controlled Emissions Estimate

   .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 ÷ 7000 =
   391 LBS/HR.
   TONS/YR = 391#/HR x 8736 HRS ÷ 2000 =
   1707 TONS/YR

4. Baghouse Air/Cloth Ratio = 1520/380 = 4.0:1

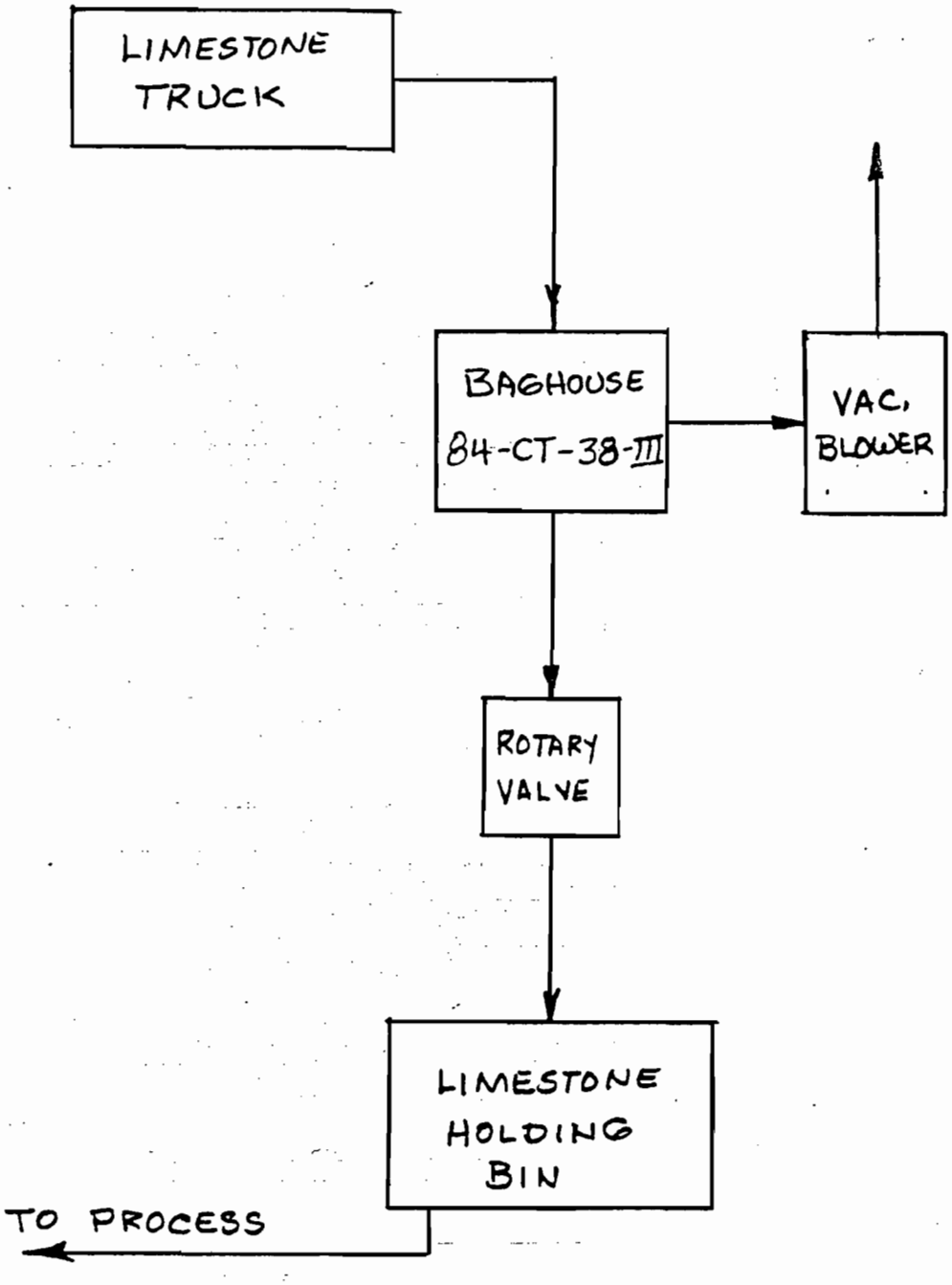
5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.

6. Flow chart attached.

7. Plot plan (plant location) attached.

8. Plot plan (equipment location) attached.

9. Application Fees: $365 County
   Attached $100 State



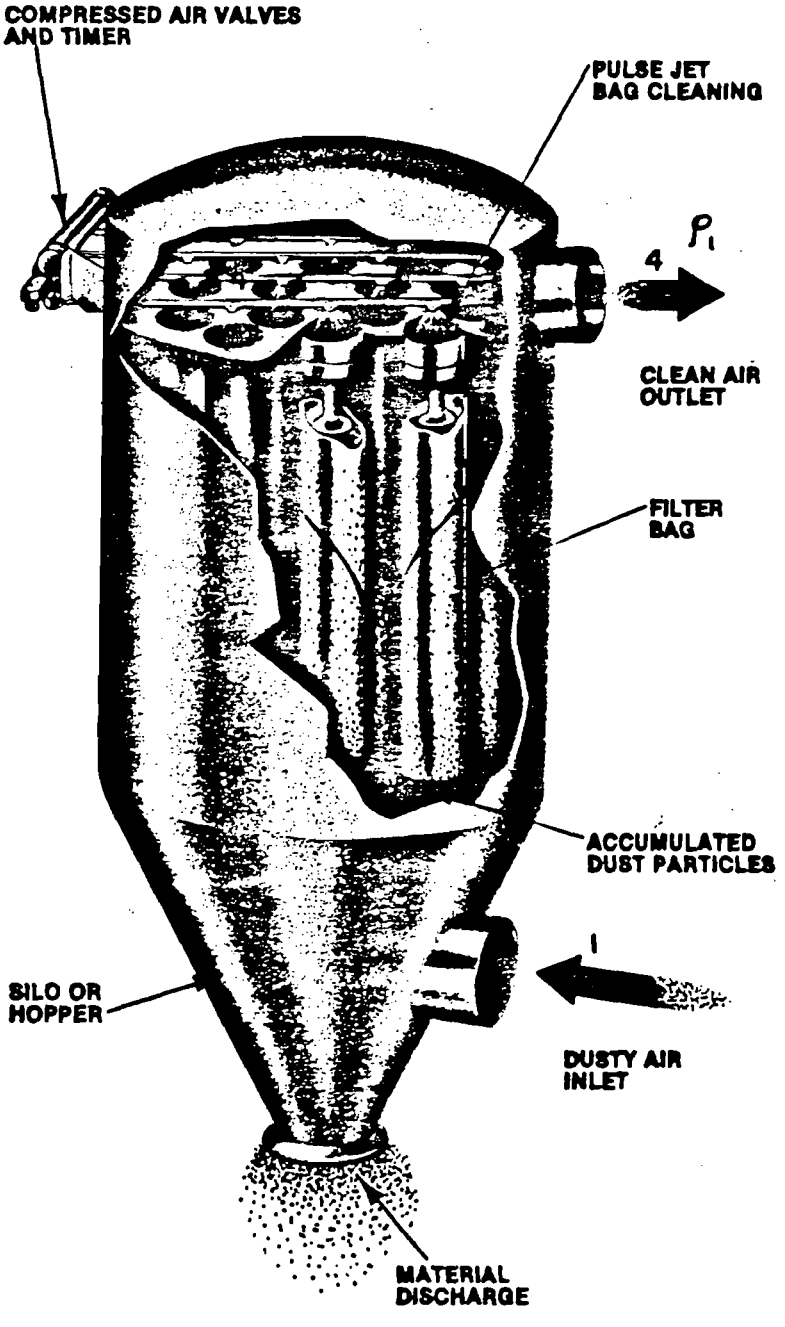
REV	BY	DATE	DESCRIPTION

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

LIMESTONE HOLDING BIN LOADING

SCALE	—	DATE	
DRAWN	DC	TAMPA	
CHECK		5K-100588-7	REV.
APPD.			
PROJ.			

NG 7768



FEATURES.

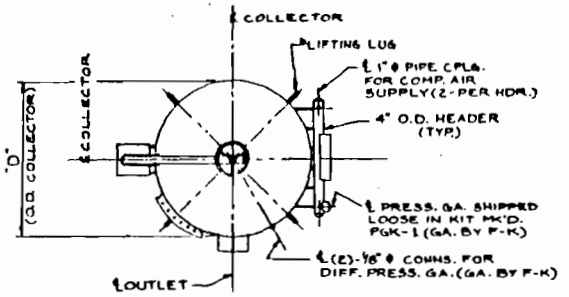
- Inlet baffle to protect bags from abrasive dusts.
- Saddle supports located to match user's support steel.
- Quick access door(s) to dusty and clean sides of the collector on negative pressure units.
- Bolted door(s) to dusty and clean sides of the collector for positive pressure units.
- Built-in 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 suit 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.

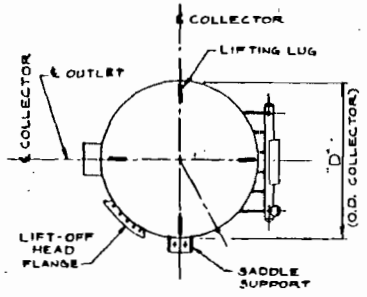
OPTIONS.

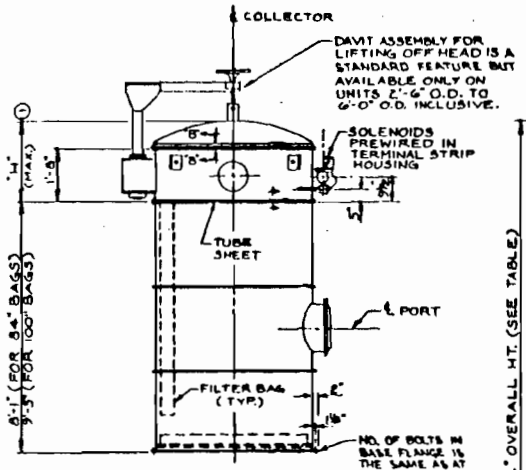
- Top bag removal with removable head or walk-in plenum.
- Stainless steel bag cages.
- Quick release bag clamps.
- Pressure differential switch-signals a rise in pressure drop.
- Explosion proof electrical components.
- Support legs and access platforms.
- High temperature alarm systems.
- Housing fabricated 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:

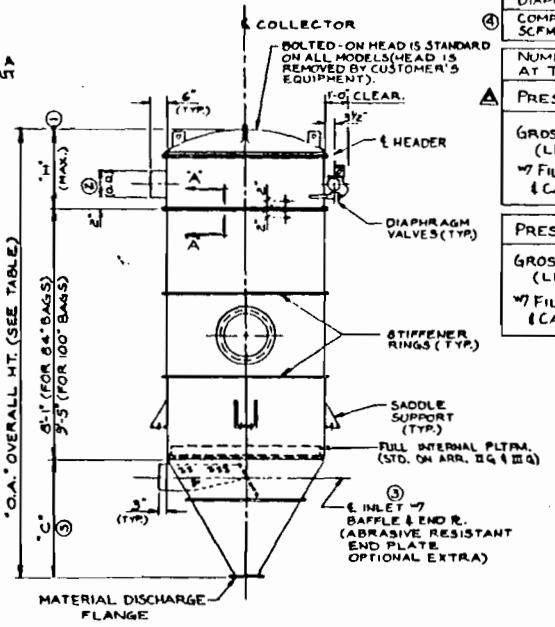
- 70° hoppers (standard is 60°).
- Hopper vibrator pads and vibrators.
- Tangential inlet with cyclone ring.
- Explosion relief vents/rupture discs.
- Static electricity grounding systems.
- Interior safety grids.
- Fan support platforms.
- Inlet baffle with end plate.
- Abrasion-resistant wear plates.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







ARRANGEMENT - II

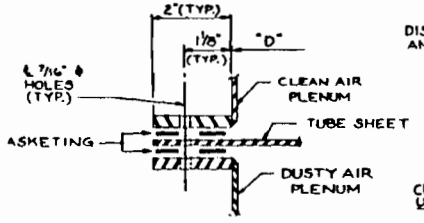


ARRANGEMENT - III

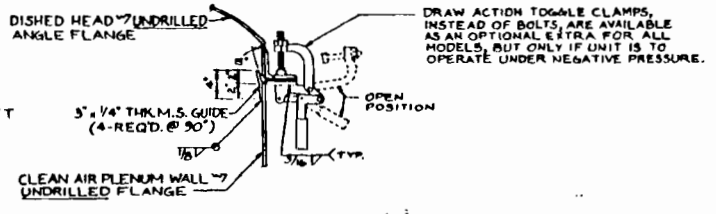
MODEL 84/100	CTT-7	CTT-9	CTT-14	CTT-21	CTT-26	CTT-32	CTT-38	CTT-46	CTT-56	CTT-64	CTT-72	CTT-85
FILTER AREA (SQ.FT.)	74/89	95/114	148/178	223/267	276/330	339/406	403/483	488/584	594/711	678/813	765/914	901/1080
"D" (OUTSIDE DIAM.)	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
"H" (CLEAN AIR PLENUM HEIGHT) ①	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-7"	2'-7"	2'-8"	2'-9"	2'-10"	2'-11"	3'-0"
"C" (CONE HEIGHT) ⑤	1'-7"	2'-0"	2'-5"	2'-11"	3'-4"	3'-9"	4'-2"	4'-8"	5'-1"	5'-6"	5'-11"	6'-4"
"O.A." (OVERALL HEIGHT)	11'-10"/13'-2"	12'-4"/13'-8"	12'-10"/14'-2"	13'-5"/14'-8"	13'-11"/15'-3"	14'-5"/15'-9"	14'-10"/16'-2"	15'-8"/16'-9"	15'-11"/17'-3"	16'-5"/17'-9"	16'-11"/18'-5"	17'-5"/18'-9"
NO. OF FILTER BAGS	7	9	14	21	26	32	38	46	56	64	72	85
CAGE LENGTH	84"/100"	84"/100"	84"/100"	84"/100"	84"/100"	84"/100"	84"/100"	84"/100"	84"/100"	84"/100"	84"/100"	84"/100"
NUMBER OF DIAPHRAGM VALVES	3	3	4	5	6	7	7	7	9	10	10	11
④ COMP. AIR REQMTS. SCFM @ 90-100 PSIG	5.0	5.8	6.5	7.0	7.8	8.5	9.5	11.0	11.5	13.5	15.0	17.0
NUMBER OF BOLTS AT TUBE SHEET FLG.	36	40	48	52	56	64	72	80	84	88	92	100
⚠ PRESS. RATING (IN. W.G.)	100	100	100	100	100	100	40	40	40	40	40	40
GROSS WGT. (LBS.) II	625/725	810/885	985/1085	1230/1350	1475/1600	1675/1800	1925/2075	2200/2325	2675/2875	2925/3600	3700/4050	4075/4400
W/ FILTER BAGS & CAGES III	675/775	875/950	1075/1175	1350/1450	1625/1750	1925/2050	2200/2350	2450/2600	3050/3250	3400/4075	4250/4550	4700/5025
PRESS. RATING (IN. W.G.)	17	17	17	17	17	17	17	17	17	17	17	17
GROSS WGT. (LBS.) II	650/750	835/910	1185/1285	1500/1600	1850/2025	2525/2875	2800/3150	3225/3950	3625/4025	5125/5600	5625/6100	6125/6825
W/ FILTER BAGS & CAGES III	700/800	900/975	1300/1400	1650/1750	2050/2225	2850/3200	3100/3550	3950/4025	4300/4700	5975/6450	6600/7100	7250/7950

NOTES:

① - CLEAN AIR PLENUM HEIGHT IS DETERMINED BY OUTLET O.D. (16" O.D. MAX. SIZE).
② - OUTLET SIZE TO BE BASED ON RECOMMENDED 3,000 - 4,000 FT. MIN. VELOCITY.
③ - INLET SIZE TO BE BASED ON RECOMMENDED 4,000 - 5,000 FT. MIN. VELOCITY.
④ - COMPRESSED AIR USAGE ASSUMES PROPER & CONSERVATIVE SIZING OF DUST COLLECTOR. RECOMMEND 90-100 PSIG COMP. AIR PRESSURE.
⑤ - CONE HEIGHT DIMENSIONS ARE BASED ON AN 8" I.D. MATERIAL DISCHARGE FLANGE. (OTHER SIZES ARE AVAILABLE)



SECTION "A-A"



SECTION "B-B"

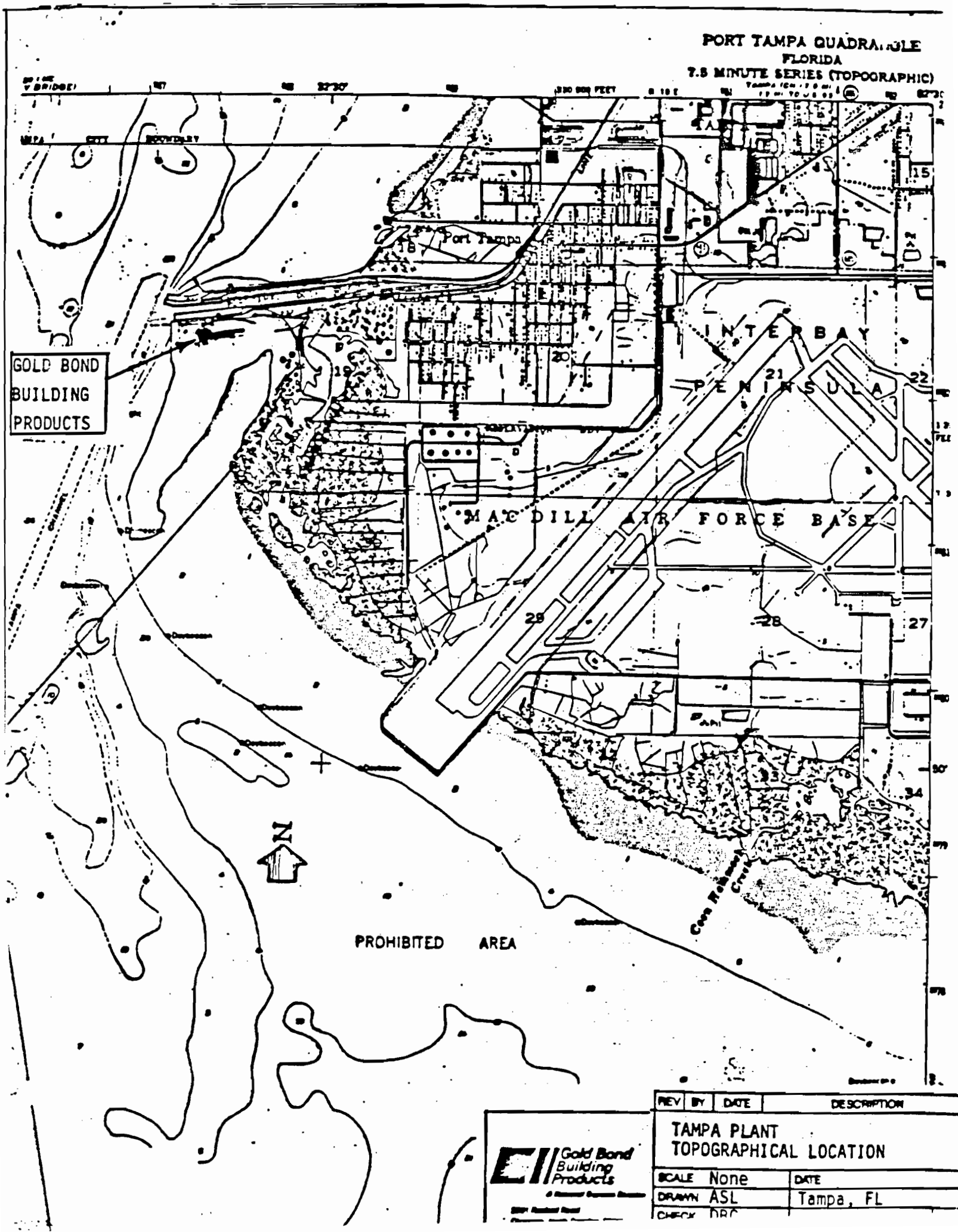
⚠	REVISED GASKET ASSEMBLY DTL. FEATURES; PRESS. RATINGS ON CTT-58 THRU CTT-114 ADDED; INT. PLTRM.	8-3-84	MJ
MARK	REVISION	DATE	BY

FLEX-KLEEN CORPORATION
SUBSIDIARY OF NUTRASWEET CORPORATION
250 S. WACKER PLAZA, CHICAGO, ILLINOIS 60606

SCALE 1/8" = 1'-0"	DRAWN BY J. MILOS
DATE 2-5-82	APPROVED BY ASZ

GENERAL DATA

MODEL "CTT" - SERIES CTT-7 THRU CTT-85	DRAWING NO. A-82JF-013	REV. A



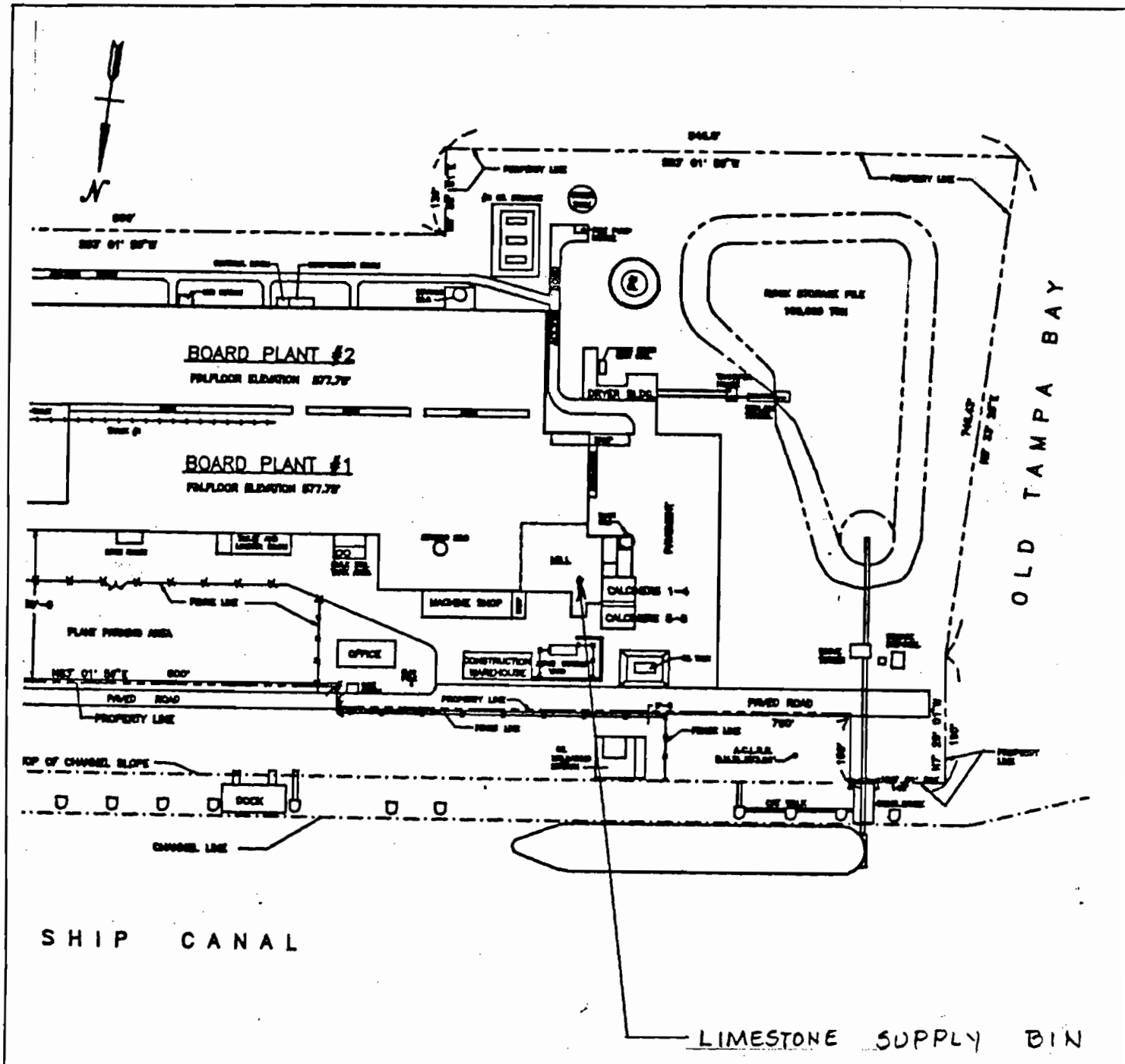
REV	BY	DATE	DESCRIPTION

Gold Bond Building Products

TAMPA PLANT
TOPOGRAPHICAL LOCATION

SCALE	None	DATE	
DRAWN	ASL		Tampa, FL
CHECK	DRC		

Best Available Copy



REV	BY	DATE	DESCRIPTION
			LIMESTONE SUPPLY BIN

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

SCALE	—
DRAWN	JC
CHECK	—
APPD.	
PROJ.	

DATE: TAMPA

SK-100788-3

REV.

1	0.59	1.07 ton/yr
2	0.09 lb/hr	0.39 ton/yr
3	0.09 lb/hr	0.39 ton/yr
4	0.18 lb/hr	0.79 ton/yr
5	0.18 lb/hr	0.79 ton/yr
6	1.32 lb/hr	5.74 ton/yr
7	0.39 lb/hr	1.71 ton/yr

replace
mixing system
w/
limestone holding

replace
limestone supply bin
w/
limestone supply bin transport system

P 274 007 518

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.	P.O. Box 19307 Bldg. Products
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 Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	Mailed: 11-15-88 Permit: AC 29-156217 thru -21 AC 29-256223, -24

PS Form 3800, June 1985 ★ U.S.G.P.O. 1985-480-794

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.
1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)* 2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
Mr. R. G. Moore
Plant Manager
Gold Bond Building Products
P. O. Box 19307
Tampa, FL 33616

4. Article Number
P 274 007 518

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X Margo Jancsar

6. Signature — Agent
X

7. Date of Delivery

8. Addressee's Address *(ONLY if requested and fee paid)*

NOV 23 1988 TAMPA FLA USPO

PS Form 3811, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 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 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.

1. 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.

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

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

10. Based on your applications, the process that you are proposing to install is not clear. For example, you have provided rather specific information concerning raw materials inputs which do not compare with the process flow diagrams. Some of the process flow diagrams make it appear as though the proposed project will produce more than one product. For 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.

11. 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

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

(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

(8) Process Rate:[1]

10. Reason for selection and description of systems:

[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 N/A

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ ( ) SO_2* _____ Wind spd/dir

Period of Monitoring ___/___/___ to ___/___/___
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory N/A

a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No

b. Was instrumentation calibrated in accordance with Department procedures?

[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from ____/____/____ to ____/____/____
month day year month day year

2. Surface data obtained from (location)_____

3. Upper air (mixing height) data obtained from (location)_____

4. Stability wind rose (STAR) data obtained from (location)_____

C. 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 showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate	
TSP	_____	grams/sec
SO^2	_____	grams/sec

E. 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

.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. Uncontrolled Potential Emissions Estimate

Estimated inlet grain loading = 20 GRS/DSCF
20 GRS/DSCF x 5120 DSCFM x 60 ÷ 7000 = 878 LBS/HR.
TONS/YR = 878#/HR x 8736 HRS ÷ 2000 = 3834 TONS/YR

4. Baghouse Air/Cloth Ratio = 5120/1280 = 4.0:1

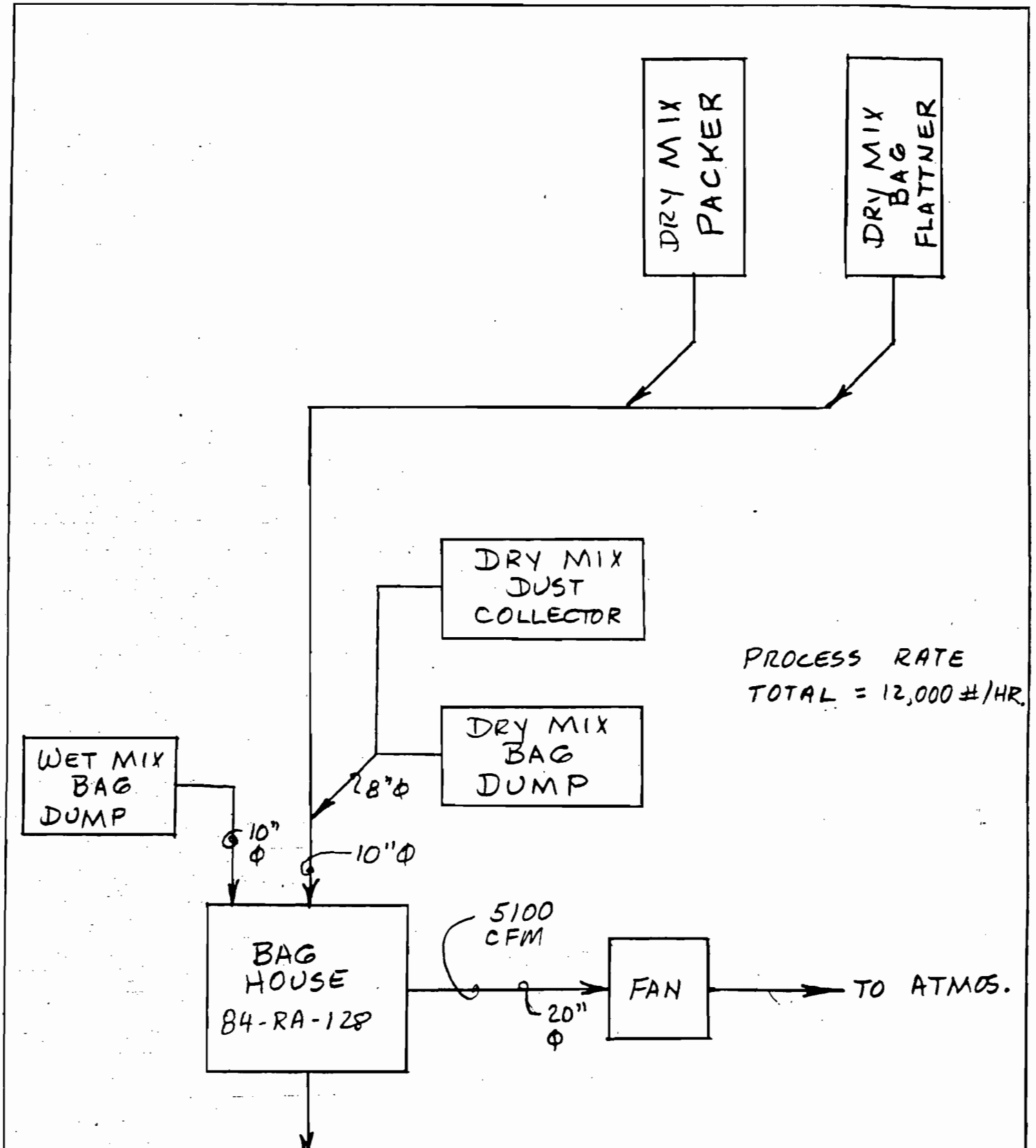
5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.

6. Flow chart attached.

7. Plot plan (plant location) attached.

8. Plot plan (equipment location) attached.

9. Application Fees: $365 County
Attached $100 State



REV	BY	DATE	DESCRIPTION

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

MAIN DUST COLLECTOR
REDI-MIX

SCALE	–	DATE	
DRAWN	DC	TAMPA	
CHECK		SK-100588-6	REV.
APPD.			
PROJ.			

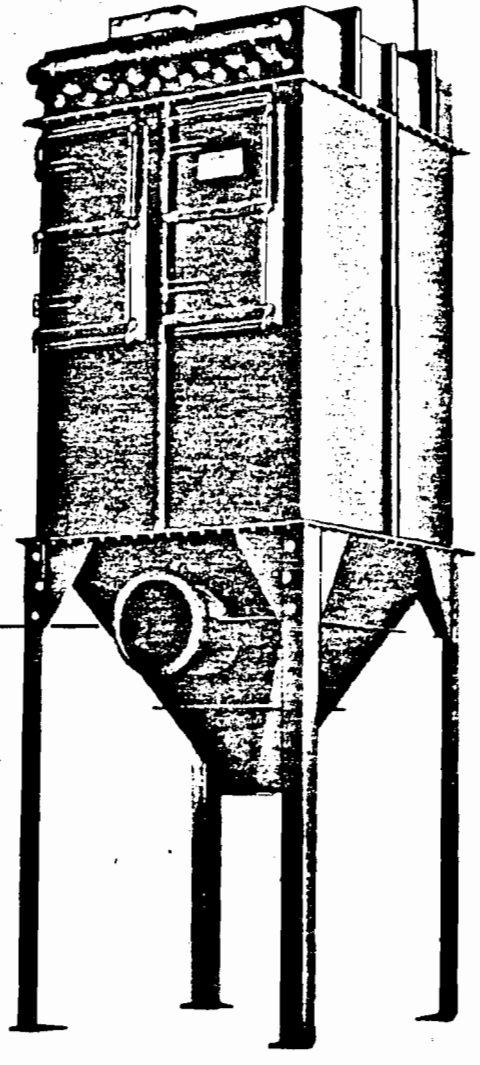
NG 7/86

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.

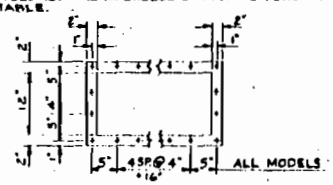
TAMPA
JOINT COMPOUND MAIN BAGHOUSE

NOTES

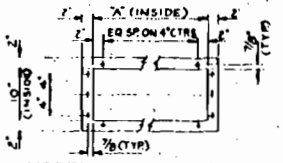
1) COMPRESSED AIR USAGE IS BASED ON AVERAGE TIMER SETTINGS FOR A PROPERLY SIZED DUST COLLECTOR.
2) MODELS WRBS-112 THRU WRBS-192 WILL HAVE TWO (2) QUICK ACCESS DOORS.
3) DESIGN PRESSURE IS ± 17" W.G.
4) WHEN DUTCHMAN/PLATF. IS INCLUDED WITH UNIT, THE MODEL BECOMES "ARRANGEMENT III G OR III G." DRAWING IS TO BE USED FOR GENERAL ARRANGEMENT ONLY AND NOT TO BE USED FOR FIELD CONSTRUCTION UNLESS IT IS CERTIFIED.
6) ALL EXTERIOR MILD STEEL SURFACES TO HAVE ONE (1) SHOP PRIME COAT.
7) INLETS AND OUTLETS HAVE BEEN SIZED FOR AN APPROXIMATE AIR-CLOTH RATIO 6/1. CHECK WITH FLEX-KLEEN OFFICE WHEN RATIOS EXCEED 8/1 OR AIR VOLUMES ARE IN EXCESS OF MAXIMUM SHOWN IN TABLE.

MODEL 84/100	WRBS-112	WRBS-128	WRBS-144	WRBS-160	WRBS-176	WRBS-192
NO. OF BAGS	112	128	144	160	176	192
(F) CLOTH AREA (FT²)	1193 / 1522	1363 / 1626	1534 / 1832	1704 / 2035	1874 / 2235	2045 / 2440
DIMENSIONS L	9'-4"	10'-8"	12'-0"	13'-4"	14'-8"	16'-0"
DIMENSIONS A	6'-8"	8'-0"	9'-4"	10'-8"	12'-0"	13'-4"
DIMENSIONS B **	13'-10" / 15'-2"	13'-10" / 15'-2"	13'-10" / 15'-2"	13'-10" / 15'-2"	13'-10" / 15'-2"	13'-10" / 15'-2"
DIMENSIONS C	29	33	37	41	45	49
DIMENSIONS D	1'-10"	1'-11"	1'-11"	2'-0"	2'-0"	2'-0"
INLET O.D.	24"	26"	26"	28"	28"	28"
OUTLET SIZE	(2)-12"x24"	(2)-12"x24"	(2)-12"x24"	(2)-12"x24"	(2)-12"x24"	(2)-14"x24"
NO OF SOLENOIDS	14	16	18	20	22	24
COMP. AIR REQMTS. SCFM @ 90-100 PSIG	16.4	18.7	21.0	23.4	25.7	28.0
# WEIGHT (LBS.)	3950 / 4350	4500 / 4960	4800 / 5300	5240 / 5750	5750 / 6300	6150 / 6750
MAX. AIR VOLUME (ACFM) SEE NOTE*	10,700	12,300	13,800	14,400	15,800	16,700

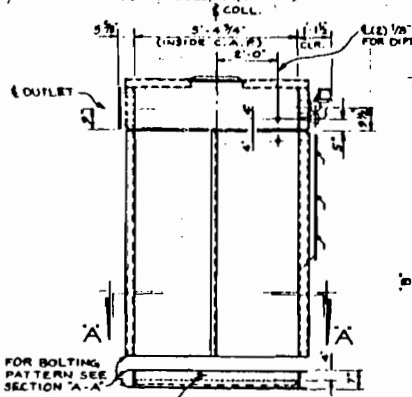
WEIGHT IN TABLE IS FOR ARRANGEMENT III
OVERALL DIMENSION IS GIVEN FOR "ARRANGEMENT III G" SUBTRACT 7" IF DUTCHMAN GRID IS NOT REQUIRED.
D.A.P. = DUSTY AIR PLENUM
C.A.P. = CLEAN AIR PLENUM



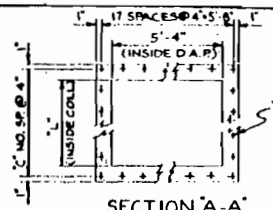
OUTLET FLANGE BOLTING DETAIL
(13/16" ϕ HOLES, TYP., SCALE: 1"=1'-0")

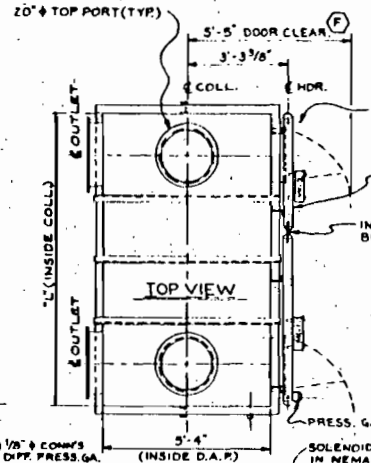


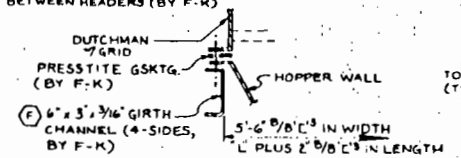
HOPPER DISCHARGE FLANGE
(13/16" ϕ HOLES, TYP., 1"=1'-0")



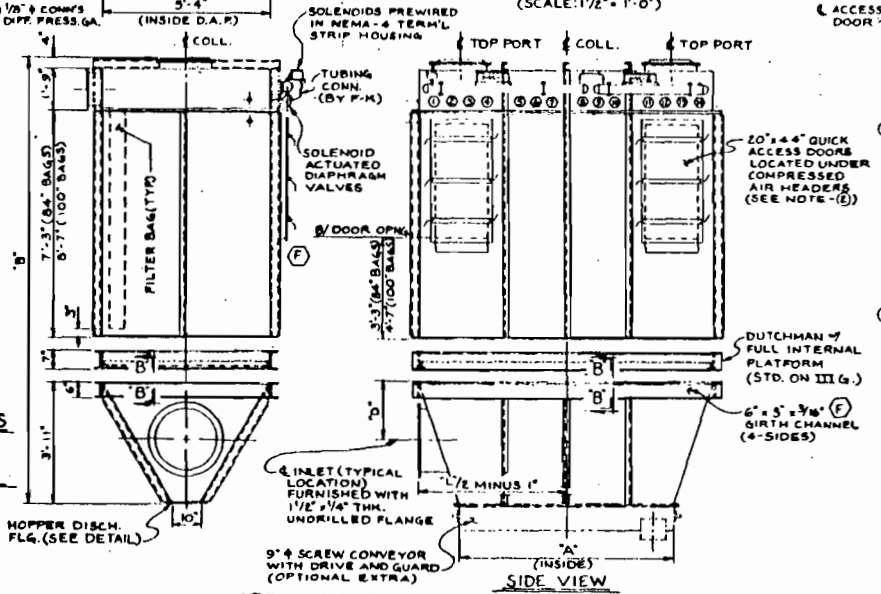
END VIEWS
ARRANGEMENT II & II G
(SEE NOTE 4)



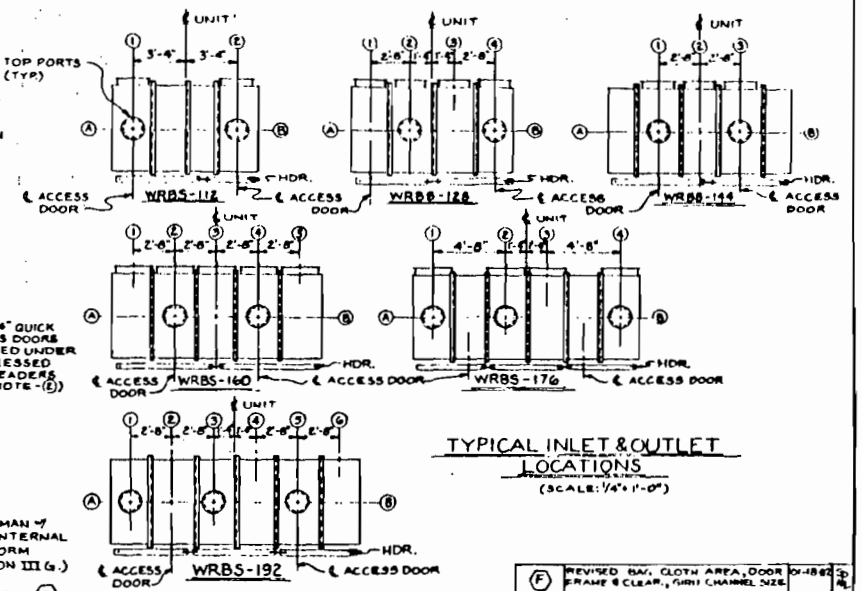




SECTION "B-B"
(SCALE: 1 1/2" = 1'-0")



ARRANGEMENT III & III G
(WRBS-112 SHOWN)



TYPICAL INLET & OUTLET LOCATIONS
(SCALE: 1/4" = 1'-0")

CUSTOMER TO INDICATE MODEL NUMBER AND DESIRED INLET & OUTLETS LOCATION

MODEL NO. _____
DESIRED OUTLET LOCATION:
(1, 2, 3, 4, 5 OR 6) ○–○ (TWO OUTLETS PER UNIT)
DESIRED INLET LOCATION (A OR B) —○
(ONE INLET PER UNIT)

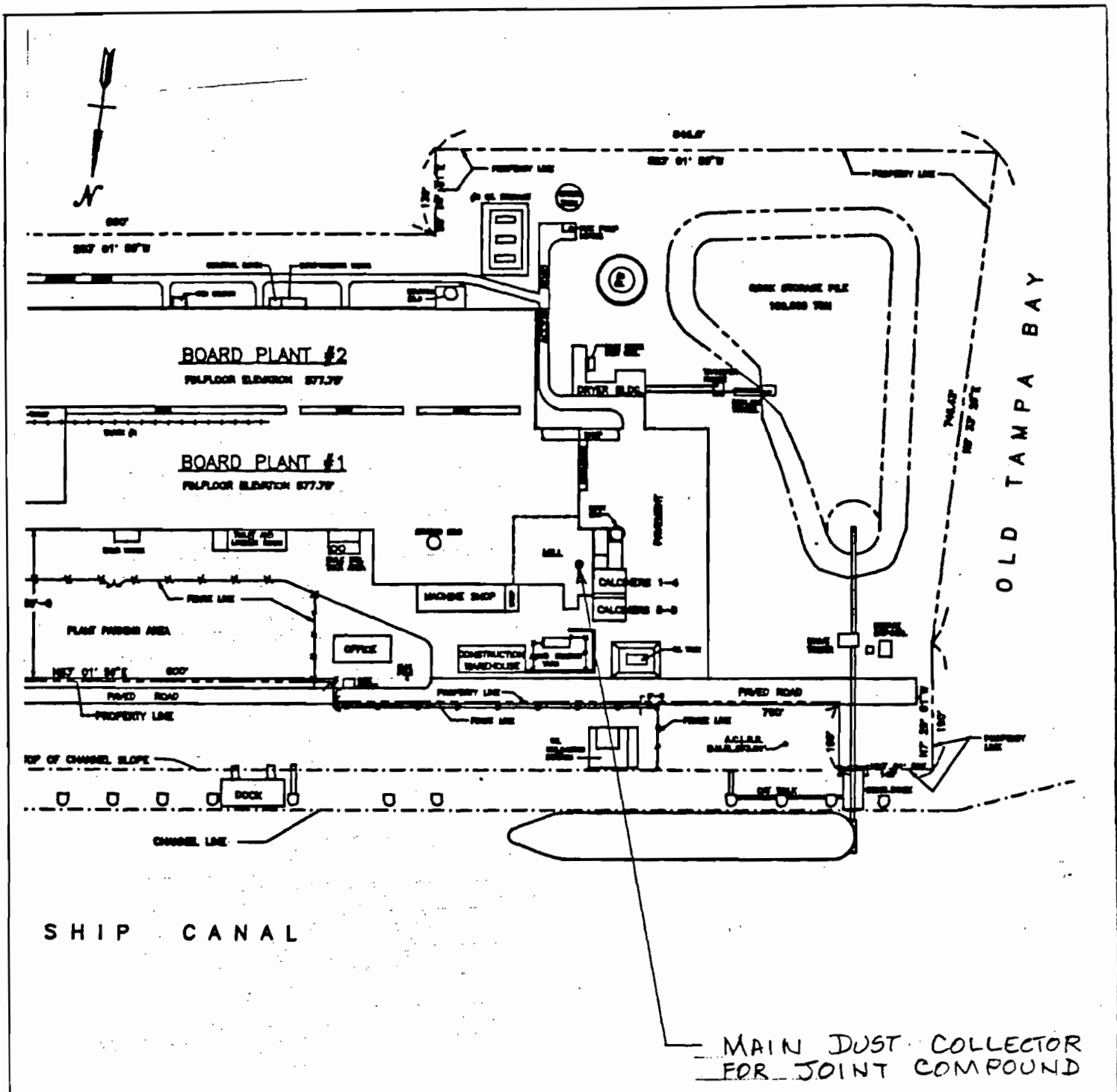
MARK	REVISIONS	DATE	BY
(F)	REVISED BAG, CLOTH AREA, DOOR FRAME & CLEAR., GIRT CHANNEL SIZE.	01-18-82	JD
(A)	REDRAWN INCORPORATING REV. "A" THRU "C" & OTHER NOTED CHANGES.	11-12-80	JH

FLEX-KLEEN CORPORATION
SUBSIDIARY OF RESEARCH-COTTRELL INC
555 S. RIVERSIDE PLAZA CHICAGO, ILLINOIS 60606

SCALE: 1/4"=1'-0" | DRAWN BY: F.M.
DATE: MAY 6, 1980 | APPROVED BY:

GENERAL DATA

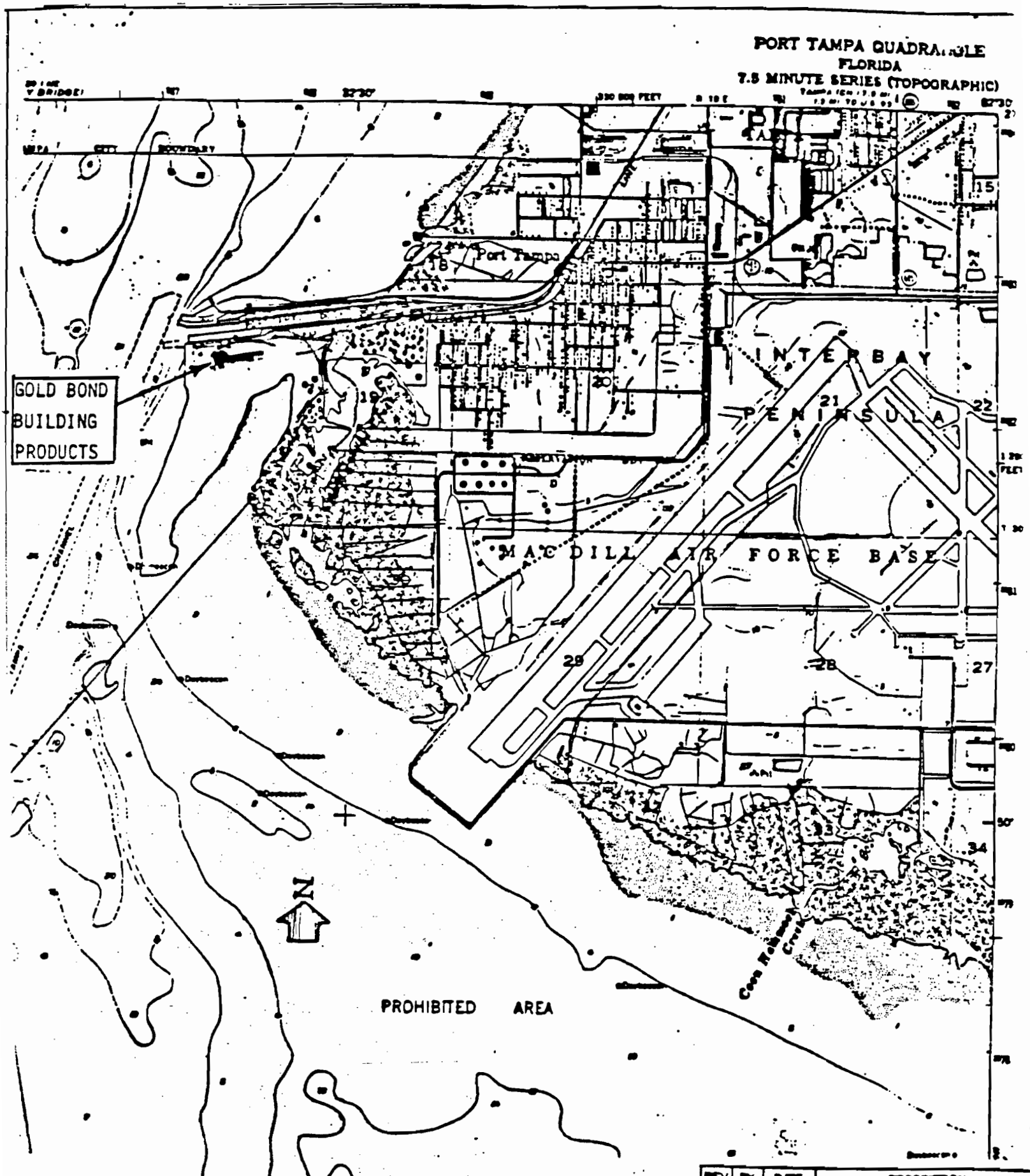
MODEL WRBS-112 THRU WRBS-192 | A-76F-295



REV	BY	DATE	DESCRIPTION
			JOINT COMPOUND MAIN BAGHOUSE

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

SCALE	—	DATE	
DRAWN	DC	TAMPA	
CHECK		SK-100788-2	REV.
APPD.			
PROJ.			



REV	BY	DATE	DESCRIPTION

TAMPA PLANT
TOPOGRAPHICAL LOCATION

SCALE None	DATE
DRAWN ASL	Tampa, FL
CHECK DBC	

Gold Bond Building Products

SYSTEM 7

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

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Limestone Supply Bin

SOURCE LOCATION: Street 6110 Commerce Street City Port Tampa

UTM: East 17-347.3 North 3.082.7

Latitude 27 ° 52 ' ___ "N Longitude 82 ° 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 Gold Bond Building Product 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. Furthe 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-transferab and I will promptly notify the department upon sale or legal transfer of the permitt establishment.

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

[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 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 _____

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

This is a limestone supply bin that will be loaded from trucks or from the Limestone Silo. Pneumatic loading at 1520 CFM with a 380 square foot Baghouse 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

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

if power plant, hrs/yr_____; if seasonal, describe:_____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

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 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 Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to 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:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Limestone	Particulates	Unknown	20,000#/HR	See Flow Chart

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

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

2. Product Weight (lbs/hr): 20,000 #/HR

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

Name of Contaminant	Emission[1]		Allowed[2] Emission Rate per Rule 17-2	Allowable[3] Emission lbs/hr	Potential[4] Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/XXX HR	T/yr	
Particulate	0.4	1.75	N/A	N/A	391	1707	

[1]See Section V, Item 2.

[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)

[3]Calculated from operating rate and applicable standard.

[4]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.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Flex-Kleen				
84-CT-38-III	Particulate	99%+	Unknown	Estimate

E. Fuels N/A

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ 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.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 45 ft. Stack Diameter: 10"0 ft.

Gas Flow Rate: 1520 ACFM 1520 DSCFM Gas Exit Temperature: Ambient °F.

Water Vapor Content: Ambient % Velocity: 46.4 FPS

SECTION IV: INCINERATOR INFORMATION N/A

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume $(ft)^3$	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diamter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: [ ] Cyclone [ ] Wet Scrubber [ ] Afterburner

[ ] Other (specify) _____

Brief description of operating characteristics of control devices:

Jet Pulse Baghouse

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, 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.

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 airborne 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.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

[ ] Yes [ ] No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

[ ] Yes [ ] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:
2. Operating Principles:
3. Efficiency:*
4. Capital Costs:

*Explain method of determining

licability to manufacturing processes: N/A

lity to construct with control device, install in available space, and operate hin proposed levels:

trol Device:

b. Operating Principles:

iciency:[1]

d. Capital Cost:

ful 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 levels:

rol Device:

b. Operating Principles:

ciency:[1]

d. Capital Costs:

ul Life:

f. Operating Cost:

gy:[2]

h. Maintenance Cost:

lability of construction materials and process chemicals:

icability to manufacturing processes:

lty to construct with control device, install in available space, and operate ln proposed levels:

the control technology selected:

ol Device:

2. Efficiency:[1]

al Cost:

4. Useful Life:

ting Cost:

6. Energy:[2]

enance Cost:

8. Manufacturer:

locations where employed on similar processes:

Company:

ing Address:

:

(4) State:

od of determining efficiency.
reported in units of electrical power - KWH design rate.

.202(1)

j. App

k. Abi
wit

3.

a. Con

c. Eff

e. Use

g. Ene

i. Ava

j. App

k. Abi
wit

4.

a. Cont

c. Effi

e. Use

g. Ener

i. Avai

j. Appl

k. Abil
with

F. Describe

1. Cont

3. Capi

5. Oper

7. Maint

9. Other

a. (1)

(2) Mail

(3) City

[1]Explain meth
[2]Energy to be

5. Useful Life: N/A

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height: ft.

b. Diameter: ft.

c. Flow Rate: ACFM

d. Temperature: °F.

e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. 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.

a. 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:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

AC 29-156217

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED

NOV 1 1988

DER - BAQM

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Polystyrene Storage Bin

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 Gold Bond Building Produc Division of National Gyps Company Construction

I certify that the statements made in this application for a permit are true, correct and complete to the best of my knowledge and belief. Furthe 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-transferab and I will promptly notify the department upon sale or legal transfer of the permitt establishment.

*Attach letter of authorization

Signed: RGMoore

R. G. Moore, Plant Manager
Name and Title (Please Type)

Date: 10-31-88 Telephone No. (813)839-2111

Subscribed and sworn to before me this 31st day of OCTOBER 1988.

NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXP JUNE 18,1990
BONDED THRU GENERAL INS. UND.

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

[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 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 PSChheda

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

Polystyrene "peanuts" are ground and air conveyed with 360 CFM air to a holding bin with 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, 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 dust control = $15,000.00.

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

$200 pd
AC 29-156217
10-17-88
Recpt. #117574

CONFIDENTIAL

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED
OCT 17 1988
DER - BAQM

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Polystyrene Storage Bin

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 Gold Bond Building Product 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, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I 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 permitted establishment.

*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

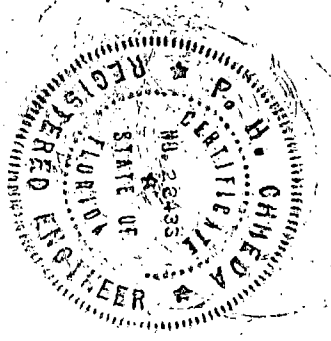
Date: 10-11-88 Telephone No. (813)839-2111

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)

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 PHC

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

Polystyrene "peanuts" are ground and air conveyed with 360 CFM air to a holding bin with 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, 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 dust control = $15,000.00.

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

AC29-156218

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

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 Products, Division of National Gypsum Company **COUNTY:** Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound 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 BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Gold Bond Building Produc Division of National Gyps 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. Furthe 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-transferab and I will promptly notify the department upon sale or legal transfer of the permitt establishment.

*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

Subscribed and sworn to before me this 31 day of OCTOBER 1988.

NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXP JUNE 18,1990
BONDED THRU GENERAL INS. UND.

Date: 10-31-88 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 ha been designed/examined by me and found to be in conformity with modern engineeri principles applicable to the treatment and disposal of pollutants characterized in t permit application. There is reasonable assurance, in my professional judgment, th

[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 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: 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)

Florida Registration No. 28433 Date: 10-10-1988 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

This is a 180 ton capacity silo and will contain only limestone. It will be pneumatically loaded from railcars or trucks at a rate of 10 tons/hr. Using 2300 CFM conveying air which will be vented thru a 640 sq. ft. baghouse which will result in full compliance.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction 12/1/88 Completion of Construction 6/1/89

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 dust control system = $40,000.00

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

N/A

CONFIDENTIAL

AC 29-156218

$300 pd 10-17-88 Receipt #117578

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

RECEIVED
OCT 17 1988
DER - BAQM

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound 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 BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Gold Bond Building Products 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I 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 permitted establishment.

*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

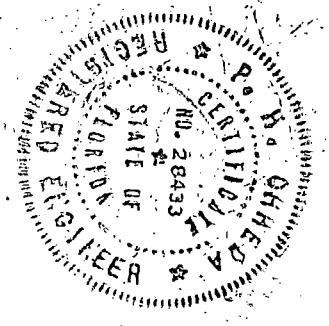
Date: 10-11-88 Telephone No. (813)839-2111

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)

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 P H Chheda

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)

Florida Registration No. 28433 Date: 10-10-1988 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

This is a 180 ton capacity silo and will contain only limestone. It will be pneumatically loaded from railcars or trucks at a rate of 10 tons/hr. Using 2300 CFM conveying air which will be vented thru a 640 sq. ft. baghouse which will result in full compliance.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction 12/1/88 Completion of Construction 6/1/89

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 dust control system = $40,000.00

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

N/A

AC 29-156219

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

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 Products, Division of National Gypsum Company **COUNTY:** Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Polystyrene Feed Hopper

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 Gold Bond Building Products 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I 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 permitted establishment.

*Attach letter of authorization

Signed: RG Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

Subscribed and sworn to before me this 31 day of OCTOBER 1988.

NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXP JUNE 18,1990
BONDED THRU GENERAL INS. UND.

Date: 10-31-88 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)

#7

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 PHChheda

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
Mailing Address (Please Type)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

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 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 dust control = $15,000.00.

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

AC 29-156219

$200.00 10-17-88 Rcpt.# 117578

CONFIDENTIAL

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED
OCT 17 1988
DER · BAQM

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Polystyrene Feed Hopper

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 Gold Bond Building Products 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I 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 permitted establishment.

*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

Date: 10-11-88 Telephone No. (813)839-2111

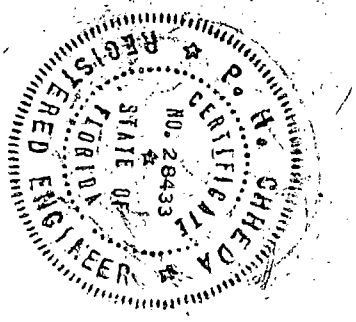
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

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)

#3

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 P.H. Chheda

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
Mailing Address (Please Type)

Florida Regiatration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

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 Conatruction 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 permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

AC 29-156220

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

RECEIVED
NOV 1 1988
DER - BAQM

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 Products, Division of National Gypsum Company **COUNTY:** Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound 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 Gold Bond Building Product 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. Furthe 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-transferab and I will promptly notify the department upon sale or legal transfer of the permitt establishment.

*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

Subscribed and sworn to before me this 31 day of October, 19 88.

Notary Public

NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXP JUNE 18,1990
BONDED THRU GENERAL INS. UND.

Date: 10-31-88 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 ha been designed/examined by me and found to be in conformity with modern engineeri principles applicable to the treatment and disposal of pollutants characterized in t permit application. There is reasonable assurance, in my professional judgment, th

[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 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: P H Chheda

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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

CONFIDENTIAL

AC 29-156220

#300 pd. 10-17-88 Recpt. #117579

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED
OCT 17 1988
DER - BAQM

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound 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 Gold Bond Building Products 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I 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 permitted establishment.

*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

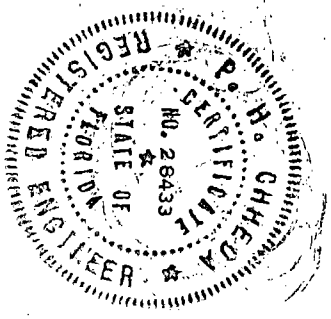
Date: 10-11-88 Telephone No. (813)839-2111

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)

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 aources.



Signed P H Chheda

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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 Conatruction 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 aerving 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

AC 29-156221

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

RECEIVED
NOV 1 1988
DER - BAQM

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 Products, Division of National Gypsum Company **COUNTY:** Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Wet Mixer

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 Gold Bond Building Products 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I 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 permitted establishment.

*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

Subscribed and sworn to before me this 31 day of October 1988.

Notary Public, State of Florida

NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXP JUNE 18,1990
BONDED THRU GENERAL INS. UND.

Date: 10-31-88 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, tha

[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 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: P.H. Chheda

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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 wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction Dec. 1, 1988 Completion of Construction Jan. 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 is $15,000

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

CONFIDENTIAL

AC29-156221

#200pd. 10-17-88 Rcpt.# 117579

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED

OCT 17 1988

DER - BAQM

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Wet Mixer

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 Gold Bond Building Products Division of National Gypsum Company Construction

I certify that the statements made in this application for a 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, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I 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 permitted establishment.

*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

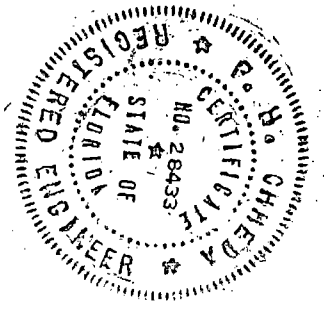
Date: 10-11-88 Telephone No. (813)839-2111

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)

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 P H Chheda

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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 wet mixer holding bin for limestone is vented thru a 175 sq. ft. baghouse with 700 cfm air flow & will result in full compliance.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction Dec. 1, 1988 Completion of Construction Jan. 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 is $15,000

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

AC 29-156223

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

RECEIVED
NOV 1 1988
DER - BAQM

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 Products, Division of National Gypsum Company **COUNTY:** Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Main Dust Collector

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 Gold Bond Building Products 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I 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 permitted establishment.

*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

Subscribed and sworn to before me this 31 day of Oct, 1988.

NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXP JUNE 18,1990
BONDED THRU GENERAL INS. UND.

Date: 10-31-88 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, tha

[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 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 _____

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

This is the primary dust collector for the Dry Bag Material Handling and mixing. It has 1280 square feet fabric and vents 5120 CFM and 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 the installed pollution control equipment = $60,000.00.

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

CONFIDENTIAL

AC 29-156223

200pd.
10-17-88
Rcpt. #117579

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED
OCT 17 1988
DER - BAQM

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

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 Products, Division of National Gypsum Company **COUNTY:** Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Main Dust Collector

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

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*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

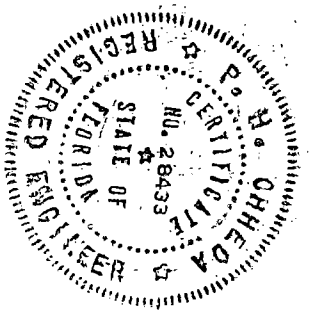
Date: 10-11-88 Telephone No. (813)839-2111

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)

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 inatructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.



Signed P H Chheda

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

This is the primary dust collector for the Dry Bag Material Handling and mixing. It has 1280 square feet fabric and vents 5120 CFM and 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 the installed pollution control equipment = $60,000.00.

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

AC 29-156224

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

RECEIVED
NOV 1 1988
DER - BAQM

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 Products, Division of National Gypsum Company **COUNTY:** Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Limestone Supply Bin

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

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*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

Subscribed and sworn to before me this 31 day of October 1988.

NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXP JUNE 18, 1990
BONDED THRU GENERAL INS. UND.

Notary Public

Date: 10-31-88 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, tha

[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 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 _____

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

This is a limestone supply bin that will be loaded from trucks or from the Limestone Silo. Pneumatic loading at 1520 CFM with a 380 square foot Baghouse 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

CONFIDENTIAL

AC29-156224

$200 pd. 10-17-88 Receipt #117578 117579

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

RECEIVED
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BOB GRAHAM
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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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Limestone Supply Bin

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 Gold Bond Building Products 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I 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 permitted establishment.

*Attach letter of authorization

Signed: R G Moore

R. G. Moore, Plant Manager
Name and Title (Please Type)

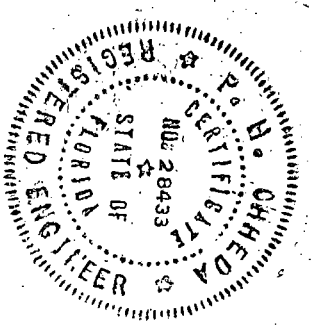
Date: 10-11-88 Telephone No. (813)839-2111

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)

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 _____

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

This is a limestone supply bin that will be loaded from trucks or from the Limestone Silo. Pneumatic loading at 1520 CFM with a 380 square foot Baghouse 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

PM
10-25-88
Charlotte, NC

file copy

Gold Bond Building Products
A National Gypsum Division

RECEIVED
OCT 28 1988
DER - BAQM

October 24, 1988

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,

DB Collins

D. B. Collins
Environmental Engineer

DBC/mmm
attachment
copied: Mike Harley
Bill Thomas, SW Dist.
Art Wells, MCEPC

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

PRESORTED FIRST CLASS

CHARLOTTE N.C. OCT 25 '88

U.S. POSTAGE $0.25

Gold Bond Building Products
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

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 ÷ 7000 =
   30.8 LBS/HR.
   TONS/YR = 30.8 #/HR x 8736 HRS ÷ 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

CONFIDENTIAL SHEETS REMOVED & RETURNED

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED

OCT 27 1988

DER - BAQM

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

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 Products, Division of National Gypsum Company COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Joint Compound Wet Mixer

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 Gold Bond Building Products 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 control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I 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 permitted establishment.

*Attach letter of authorization

Signed: R G Moore

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, tha

[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 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 PSChheda

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)

Florida Registration No. 28433 Date: 10/10/88 Telephone No. (704)365-7238

SECTION II: GENERAL PROJECT INFORMATION

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.

Polystyrene "peanuts" are ground and air conveyed with 360 CFM air to a holding bin with 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, 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 dust control = $15,000.00.

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None

RECEIVED

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

if power plant, hrs/yr_____; if seasonal, describe:_____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

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 Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? 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.

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

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

1. Total Process Input Rate (lbs/hr): 12,300

2. Product Weight (lbs/hr): 12,300

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

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

[1]See Section V, Item 2.

[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)

[3]Calculated from operating rate and applicable standard.

[4]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.)	Contaminant	Efficiency	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

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

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

Fuel Analysis: N/A

Percent Sulfur:_____ Percent Ash:_____

Density: _____ lbs/gal Typical Percent Nitrogen:_____

Heat Capacity: _____ BTU/lb _____ 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.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 45 ft. Stack Diameter: 18"0 ft.

Gas Flow Rate: 5120 ACFM 5120 DSCFM Gas Exit Temperature: Ambient °F.

Water Vapor Content: Ambient % Velocity: 48.2 FPS

SECTION IV: INCINERATOR INFORMATION

N/A

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume $(ft)^3$	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diamter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: [ ] Cyclone [ ] Wet Scrubber [ ] Afterburner

[ ] Other (specify) _____

Brief description of operating characteristics of control devices:

Jet-Pulse Baghouse

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, 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.

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 airborne 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 msnufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagrsm.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

[ ] Yes [ ] No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

[ ] Yes [ ] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:
2. Operating Principles:
3. Efficiency:*
4. Capital Costs:

*Explain method of determining

5. Useful Life: N/A

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height: ft.

b. Diameter: ft.

c. Flow Rate: ACFM

d. Temperature: °F.

e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. 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.

a. 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:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes: N/A

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. 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 conatruction 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:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1]

d. Capital Costs:

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:

F. Describe the control technology selected:

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 similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

(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

(8) Process Rate:[1]

10. Reason for selection and description of systems:

[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 N/A

A. Company Monitored Data

1. _____no. sites _____ TSP _____( ) SO^{2}* _____ Wind spd/dir

Period of Monitoring ____/____/____ to ____/____/____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory N/A

a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No

b. Was instrumentation calibrated in accordance with Department procedures?

[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from ____/____/____ to ____/____/____
month day year month day year

2. Surface data obtained from (location)_____

3. Upper air (mixing height) data obtained from (location)_____

4. Stability wind rose (STAR) data obtained from (location)_____

C. 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 showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate	
TSP	_____	grams/sec
SO^2	_____	grams/sec

E. 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

.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. Uncontrolled Potential Emissions Estimate

Estimated inlet grain loading = 20 GRS/DSCF
20 GRS/DSCF x 5120 DSCFM x 60 ÷ 7000 = 878 LBS/HR.
TONS/YR = 878#/HR x 8736 HRS ÷ 2000 = 3834 TONS/YR

4. Baghouse Air/Cloth Ratio = 5120/1280 = 4.0:1

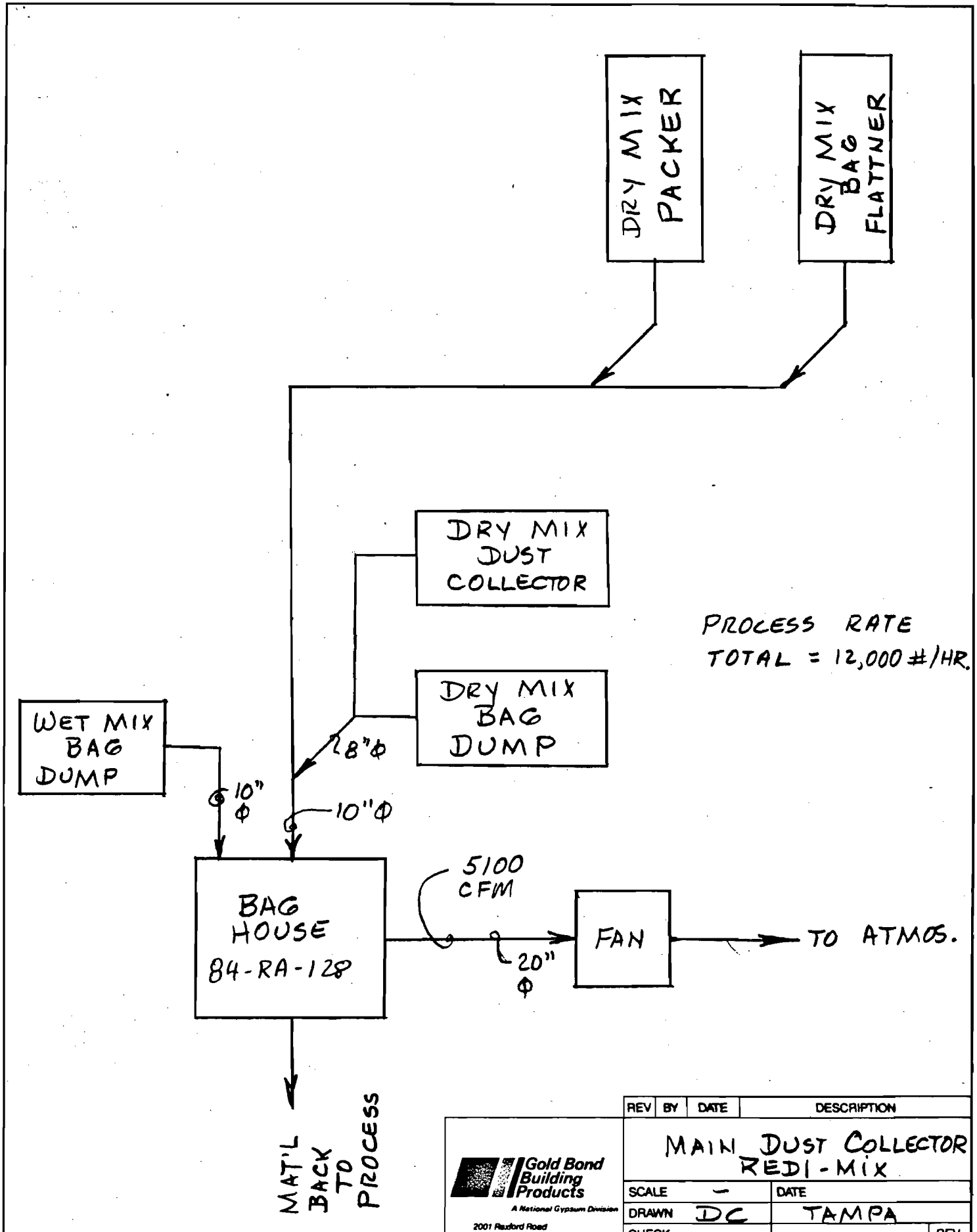
5. Typical tests (EPA Method 5) made on similar baghouses have resulted in 99%+ efficiencies.

6. Flow chart attached.

7. Plot plan (plant location) attached.

8. Plot plan (equipment location) attached.

9. Application Fees: $365 County
Attached $100 State



PROCESS RATE
TOTAL = 12,000 #/HR.

REV	BY	DATE	DESCRIPTION

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

MAIN DUST COLLECTOR
REDI-MIX

SCALE	–	DATE	
DRAWN	DC	TAMPA	
CHECK		SK-100588-6	REV.
APPD.			
PROJ.			

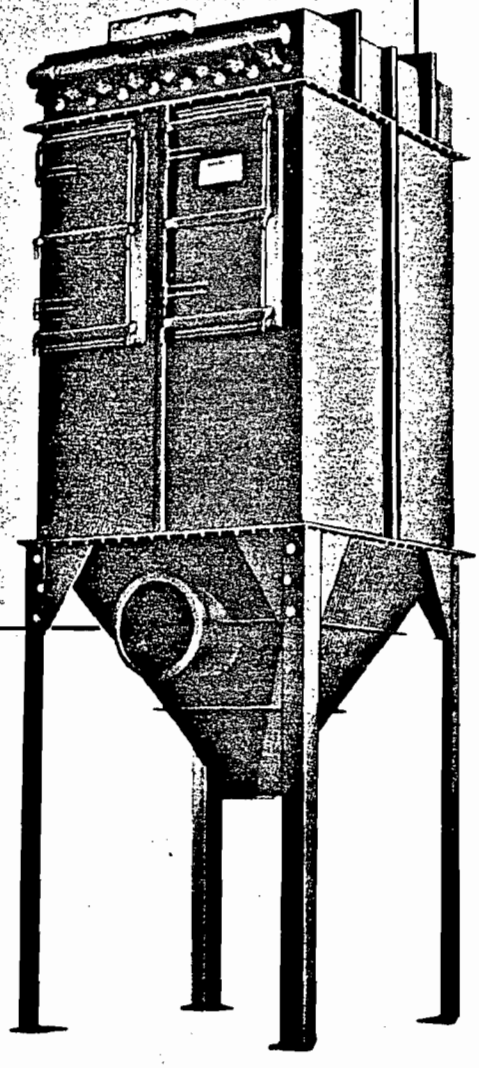
NG 7/86

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.

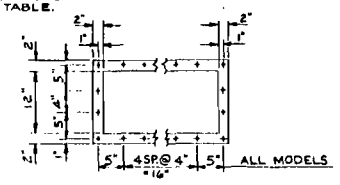
TAMPA JOINT COMPOUND MAIN BAGHOUSE

NOTES

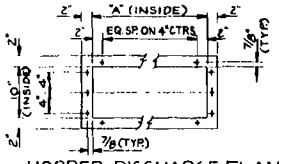
1) COMPRESSED AIR USAGE IS BASED ON AVERAGE TIMER SETTINGS FOR A PROPERLY SIZED DUST COLLECTOR.
2) MODELS WRBS-112 THRU WRBS-192 WILL HAVE TWO (2) QUICK ACCESS DOORS.
3) DESIGN PRESSURE IS ± 17" W.G.
4) WHEN DUTCHMAN/PLATF. IS INCLUDED WITH UNIT, THE MODEL BECOMES "ARRANGEMENT IIG OR IIIG." DRAWING IS TO BE USED FOR GENERAL ARRANGEMENT ONLY AND NOT TO BE USED FOR FIELD CONSTRUCTION UNLESS IT IS CERTIFIED.
6) ALL EXTERIOR MILD STEEL SURFACES TO HAVE ONE (1) SHOP PRIME COAT.
7) INLETS AND OUTLETS HAVE BEEN SIZED FOR AN APPROXIMATE AIR-CLOTH RATIO 8/1. CHECK WITH FLEX-KLEEN OFFICE WHEN RATIOS EXCEED 8/1 OR AIR VOLUMES ARE IN EXCESS OF MAXIMUM SHOWN IN TABLE.

MODEL 84/100	WRBS-112	WRBS-128	WRBS-144	WRBS-160	WRBS-176	WRBS-192
NO. OF BAGS	112	128	144	160	176	192
(F) CLOTH AREA (FT²)	1187 / 1422	1357 / 1626	1526 / 1829	1696 / 2032	1866 / 2235	2035 / 2438
DIMENSIONS L	9'-4"	10'-8"	12'-0"	13'-4"	14'-8"	16'-0"
DIMENSIONS A	6'-8"	8'-0"	9'-4"	10'-8"	12'-0"	13'-4"
DIMENSIONS ** B	13'-10" / 15'-2"	13'-10" / 15'-2"	13'-10" / 15'-2"	13'-10" / 15'-2"	13'-10" / 15'-2"	13'-10" / 15'-2"
DIMENSIONS C	29	33	37	41	45	49
DIMENSIONS D	1'-10"	1'-11"	1'-11"	2'-0"	2'-0"	2'-0"
DIMENSIONS INLET O.D.	24"	26"	26"	28"	28"	28"
DIMENSIONS OUTLET SIZE	(2)-12"x24"	(2)-12"x24"	(2)-12"x24"	(2)-12"x24"	(2)-12"x24"	(2)-14"x24"
NO. OF SOLENOIDS	14	16	18	20	22	24
COMP. AIR REQRMTS. SCFM @ 90-100 PSIG	16.4	18.7	21.0	23.4	25.7	28.0
* WEIGHT (LBS.)	3950 / 4350	4300 / 4750	4800 / 5300	5200 / 5750	5750 / 6300	6100 / 6750
MAX. AIR VOLUME (ACFM) SEE NOTE #7	10,700	12,300	13,800	14,400	15,800	16,200

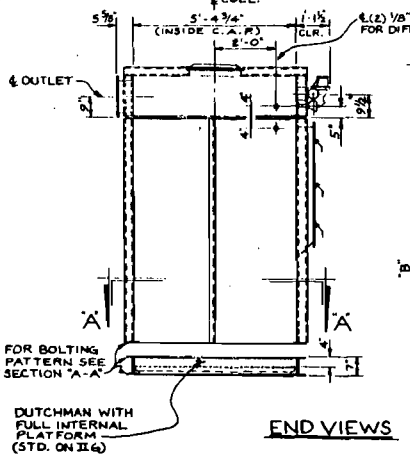
* WEIGHT IN TABLE IS FOR ARRANGEMENT III.
** OVERALL DIMENSION IS GIVEN FOR "ARRANGEMENT III G" SUBTRACT 7" IF DUTCHMAN GRID IS NOT REQUIRED.
D.A.P. = DUSTY AIR PLENUM
C.A.P. = CLEAN AIR PLENUM



OUTLET FLANGE BOLTING DETAIL
(7/16" ϕ HOLES, TYP., SCALE: 1" = 1'-0")

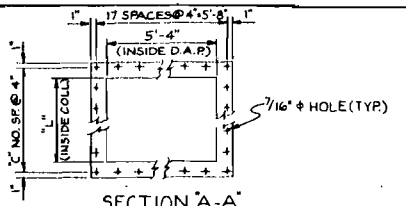


HOPPER DISCHARGE FLANGE
(7/16" ϕ HOLES, TYP., 1" = 1'-0")

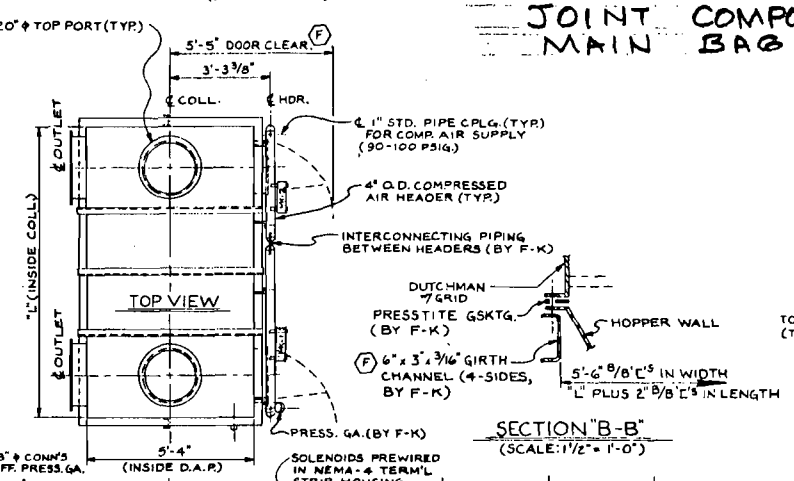


END VIEWS

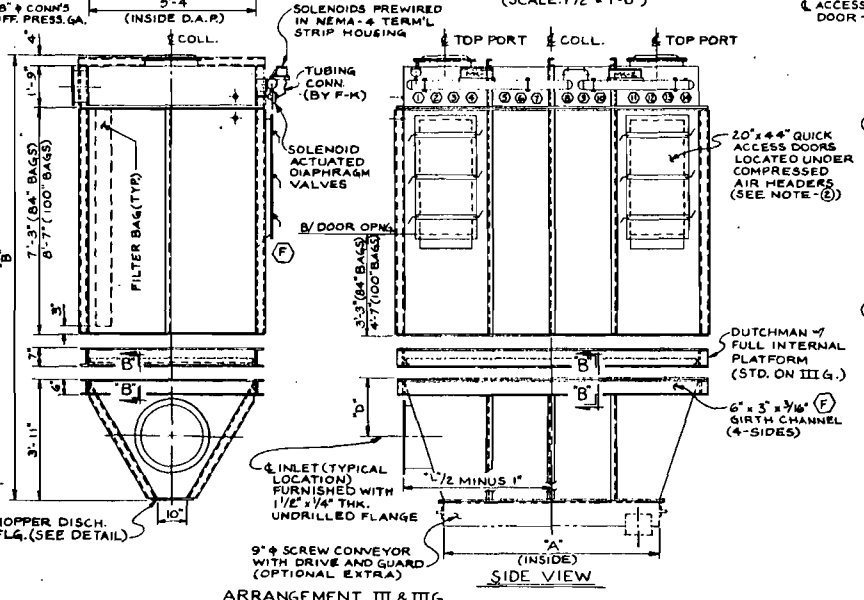
ARRANGEMENT II & IIG
(SEE NOTE 4)



SECTION "A-A"
(SCALE: 1" = 1'-0")

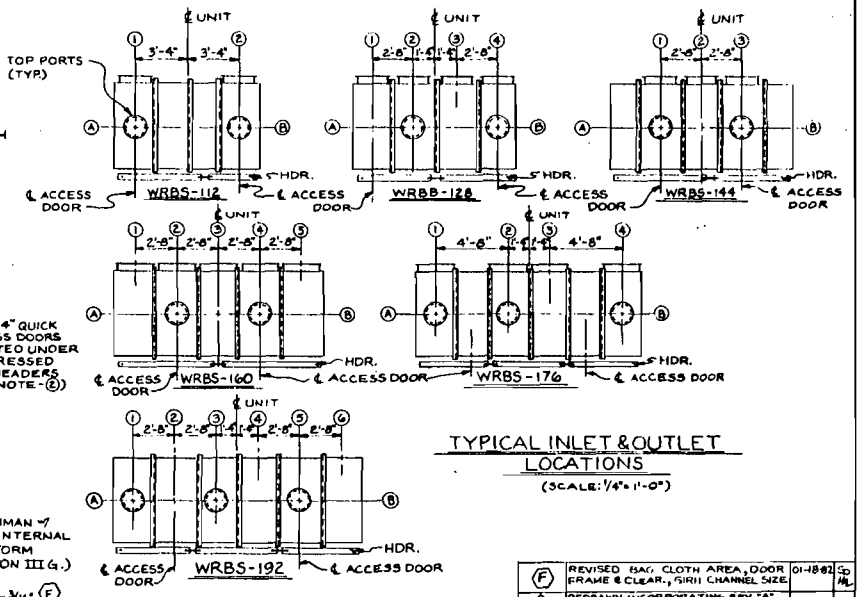


SECTION "B-B"
(SCALE: 1 1/2" = 1'-0")



SIDE VIEW

ARRANGEMENT III & IIIG
(WRBS-112 SHOWN)



TYPICAL INLET & OUTLET LOCATIONS
(SCALE: 1/4" = 1'-0")

CUSTOMER TO INDICATE MODEL NUMBER AND DESIRED INLET & OUTLETS LOCATION

MODEL NO.
DESIRED OUTLET LOCATION:
(1, 2, 3, 4, 5 OR 6) ○-○ (TWO OUTLETS PER UNIT)
DESIRED INLET LOCATION (A OR B) —○ (ONE INLET PER UNIT)

MARK	REVISIONS	DATE	BY
(F)	REVISED BAG CLOTH AREA, DOOR FRAME ℄ CLEAR., 5/8" CHANNEL SIZE.	01-18-82	SD ML
(6)	REDRAWN INCORPORATING REV. "A" THRU "D". DELETED NOTATION FOR PLG. THICKNESS FROM OUTLET FLANGE.	11-12-80	JM

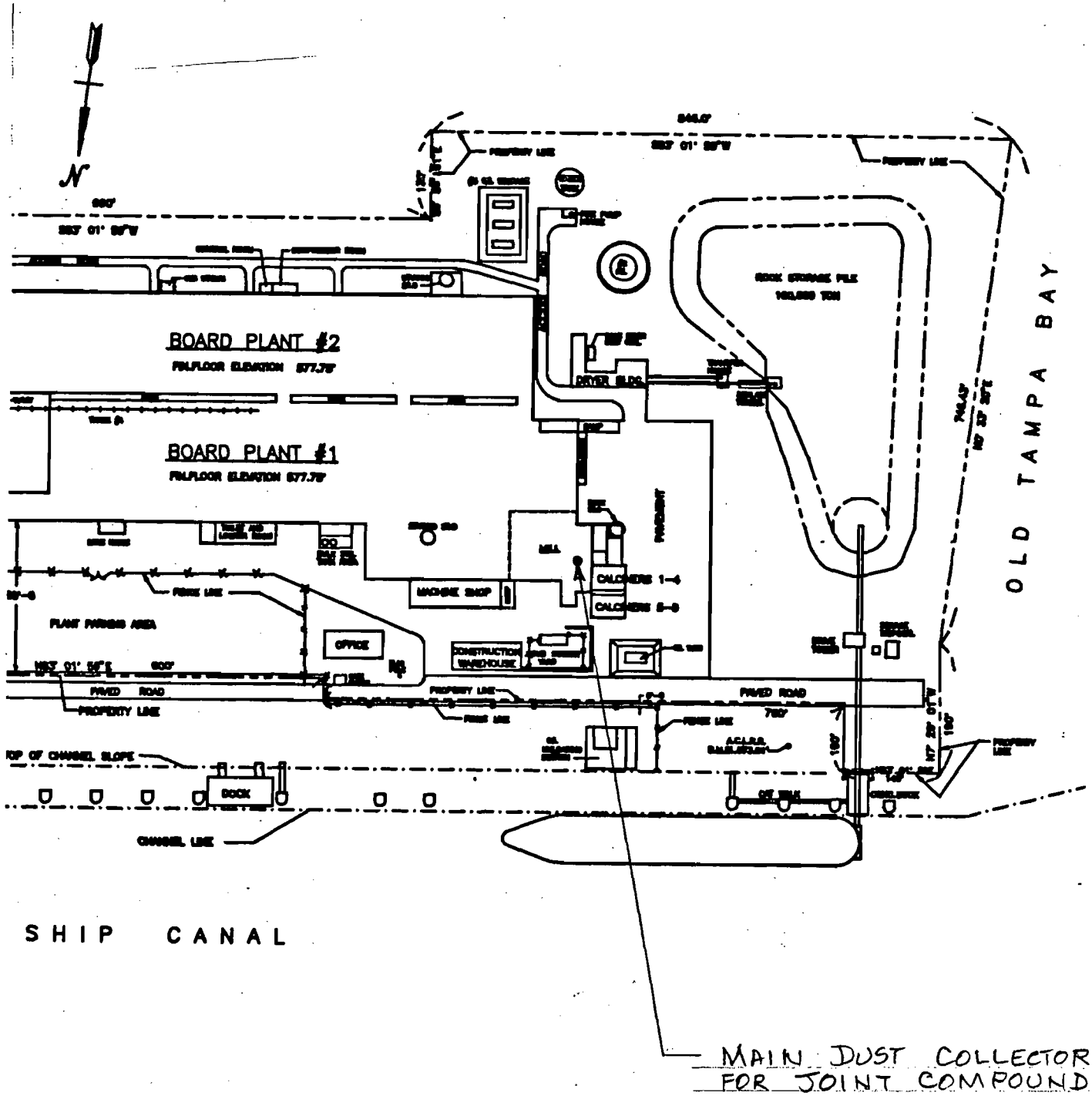
FLEX-KLEEN CORPORATION
SUBSIDIARY OF RESEARCH - COTTRELL, INC
222 S. RIVERSIDE PLAZA, CHICAGO, ILLINOIS 60606

SCALE: 1/2" = 1'-0" | C/S NO. | DRAWN BY: F.M.
DATE: MAY 8, 1978 | APPROVED BY:

GENERAL DATA

MODEL WRBS-112 THRU WRBS-192 | DRAWING NUMBER A-76F-295

Best Available Copy



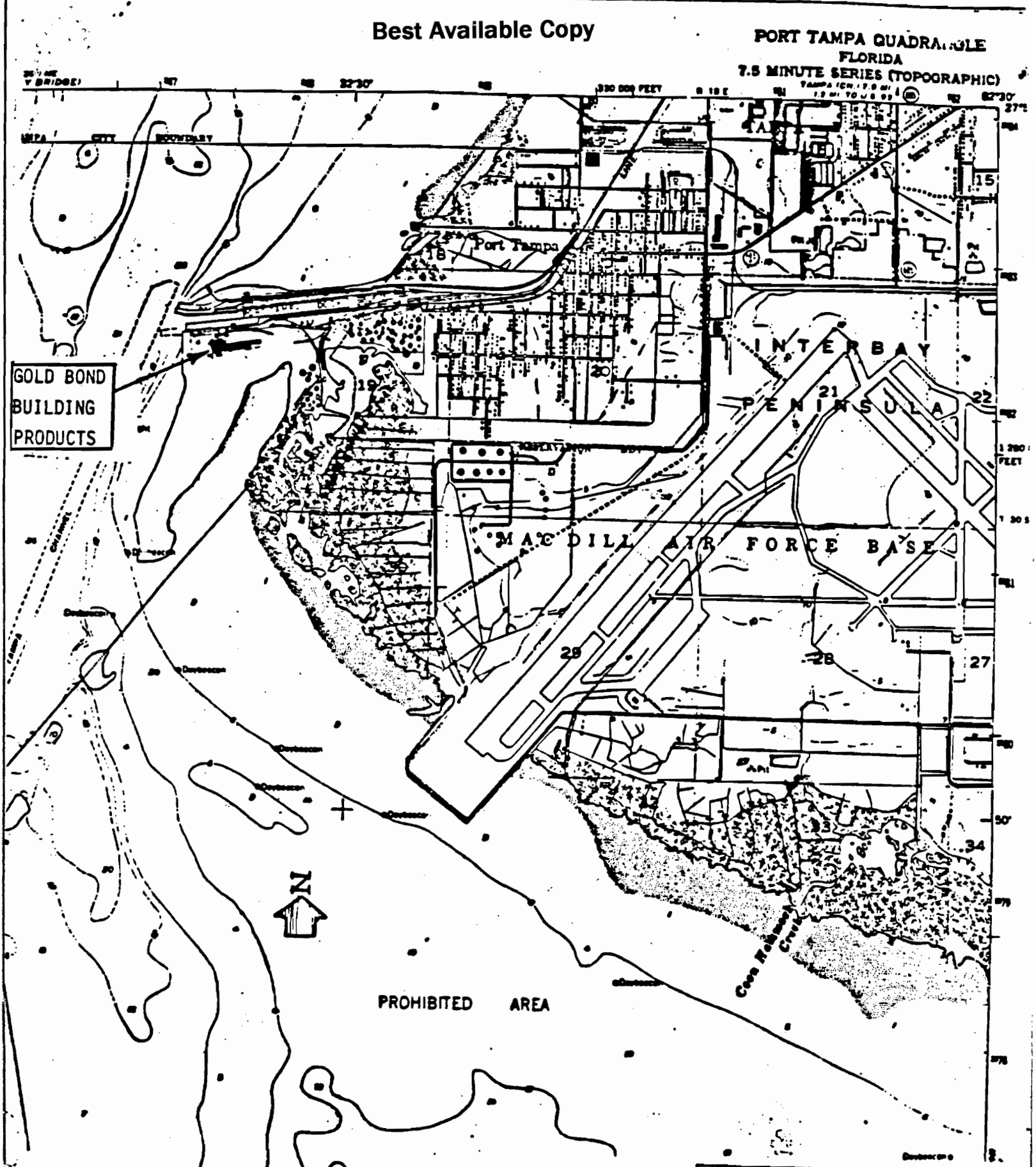
REV	BY	DATE	DESCRIPTION
			JOINT COMPOUND MAIN BAGHOUSE

Gold Bond Building Products
A National Gypsum Division
2001 Rexford Road
Charlotte, North Carolina 28211

SCALE	—	DATE
DRAWN	DC	TAMPA
CHECK		SK-100788-2 REV.
APPD.		
PROJ.		

NG 7788

Best Available Copy

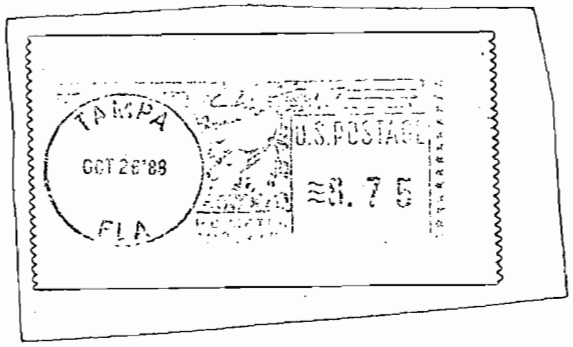


REV	BY	DATE	DESCRIPTION

TAMPA PLANT
TOPOGRAPHICAL LOCATION

SCALE None	DATE
DRAWN ASL	Tampa, FL
CHECK DBC	
APPD	205K-01048A REV.

Gold Bond Building Products



POST OFFICE TO ADDRESSEE

EXPRESS MAIL NEXT DAY SERVICE

B 89342998

For Postal Use

ORIGIN	Date In: 10-26-89	Postage $ 8.75
Post Office ZIP Code 33611	Time In: 1510 A.M. P.M.	Return Receipt Fee $
Initials of Receiving Clerk LC	Weight 3 lbs.	

☑ Accepted for next day delivery. **ACCEPTANCE**

☐ Accepted for this destination after deposit deadline for next day delivery therefore, for delivery by second day.

(Consult your local Express Mail Next Day Service directory for deposit deadlines for different destinations.)

☐ International On Demand

Total Postage & Fees $ 8.75

For Postal Use Only

DESTINATION

Date of Delivery: 10/27 Time of Delivery: 11:50 A.M. P.M.

Initials of Delivery Employee: Leland

X Signature of Addressee or Agent: by Amar

DELIVERY WAS ATTEMPTED

Date: Time: A.M. P.M.

Notice Left By:

For Customer Use

Account Number (if any) (Using an authorized number indicates postage and fees paid.)

Express Mail Corporate Account No.:

Federal Agency Control No.:

FROM:

GOLD BOND BUILDING PRODUCTS
POST OFFICE BOX 19307
TAMPA, FLORIDA 33696

For Customer Use

ADDRESSEE'S COPY

TO: Telephone Number:

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
TWIN TOWERS OFFICE BLDG.
2600 BLAIR STONE ROAD
TALAHASSEE, FL. 32399-2400

ATTENTION: BILL THOMAS

Label 11-B (Sept. 1985) ★ U.S.G.P.O.-1985-480-021

ROGER P. STEWART
DIRECTOR
1900 - 9th AVE
TAMPA, FLORIDA 33605
TELEPHONE (813) 272-5960

M E M O R A N D U M

DATE: October 12, 1988

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 TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION) Bill	Initial	
	Date	
2.	Initial	
	Date	
3.	Initial	
	Date	
4.	Initial	
	Date	

REMARKS:

New application
Received date is
10/17/88 since
that's when the
fee was received
(by SW Dist)

INFORMATION

- Review & Return
- Review & File
- Initial & Forward

DISPOSITION

- Review & Respond
- Prepare Response
- For My Signature
- For Your Signature
- Let's Discuss
- Set Up Meeting
- Investigate & Report
- Initial & Forward
- Distribute
- Concurrence
- For Processing
- Initial & Return

FROM: Patty

DATE

PHONE

ENVIRONMENTAL PROTECTION COMMISSION
HILLSBOROUGH COUNTY

ROGER P. STEWART
DIRECTOR
1900 - 9th AVE
TAMPA, FLORIDA 33605
TELEPHONE (813) 272-5960

M E M O R A N D U M

DATE: October 12, 1988

TO: Bill Thomas, CAPS
AIR QUALITY

FROM: Art Wells, EPC/HC AW

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If you need to contact me please call Suncom 543-5530.

1031

Gold Bond Building Products
A National Gypsum Division
Charlotte, NC 28211

DATE 10/10/88

66-790
531

075326

AMOUNT OF CHECK

$700.00

PAY TO THE ORDER OF Florida Department of Environmental Protection
Twin Towers Office Bldg.
2600 Blair Stone Road
Tallahassee, FL 32399-2400

OPERATING ACCOUNT NORTH CAROLINA NATIONAL BANK Asheville, NC 28802

[redacted]

Gold Bond Building Products / 2001 Rexford Road Charlotte, NC 28211
A National Gypsum Division

704-365-0950

REMITTANCE ADVICE- DETACH AND RETAIN

CHECK NO. 075326
DATE 10/10/88

O.NO.	DOCUMENT NO.	DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
	7 Permit Applications @ $100.00				$700.00
		TOTALS			$700.00

ROUTE TO:
-2147 REV. 11-80

Gold Bond Building Products
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

[redacted]

Gold Bond Building Products / 2001 Rexford Road Charlotte, NC 28211
A National Gypsum Division
704-365-0950

REMITTANCE ADVICE- DETACH AND RETAIN

CHECK NO. 075328
DATE 10/10/88

VO.NO.	DOCUMENT NO.	DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
	7 Permit applications @ $365.00				$2,555.00
		TOTALS			$2,555.00

ROUTE TO:
NGS-2147 REV. 11-80

GOLD BOND

Hooray, Bill Thomas, Tallahassee

This is the check for the ant. due for the 7 applications for the joint compound process. If this has one correct, then DAY 1 is Oct. 17. Ant

0091 00101

0091

Gold Bond Building Products
A National Gypsum Division

020 № 22181 66-798 531

TAMPA, FLORIDA Oct. 14, 1988

PAY TO THE ORDER OF State of Fla. Dept. of Environmental Regulations $ 700.00

SEVEN HUNDRED AND NO/100---------- DOLLARS

NORTH CAROLINA NATIONAL BANK
ASHEVILLE, NC 28802

GOLD BOND BUILDING PRODUCTS
MILL CASH ACCOUNT

Linda H. Clements
AUTHORIZED SIGNATURE

[redacted]

NGS-4068 REV. 11-80

Gold Bond Building Products
A National Gypsum Division

October 10, 1988

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,

R G Moore

R. G. Moore
Plant Manager

RGM/mmm
attachments

cc: P. H. Chheda
Director of Engineering

P.O. Box 19307 · 6110 Commerce Street · Tampa, Florida 33686

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
	TOTAL	2.84	10.88

Gold Bond Building Products
A National Gypsum Division

RECEIVED
OCT 12 1988
DER-BAQM

October 10, 1988

RECEIVED
OCT 17 1988
DER-BAQM

Environmental Protection Commission of
Hillsborough County
1410 N. 21st Street
Tampa, FLA 33605

Subject: Joint Compound Process

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R. G. Moore
Plant Manager

RGM/mmm
attachments

cc: P. H. Chheda
Director of Engineering

P.O. Box 19307 • 6110 Commerce Street • Tampa, Florida 33686