

P 256 396 233

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

U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

Sent to	R.G. Moore
Street and No.	Gold Bond Bldg.
P.O., State and ZIP Code	1110 Commerce St Tampa, FL
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	11-15-90 AC 29-179018

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.
- 2.  Restricted Delivery (Extra charge)

3. Article Addressed to:

R.G. Moore  
Tampa Plant Mgr.  
Gold Bond Bldg. Prod.  
P.O. Box 19307  
Tampa, FL 33616

4. Article Number

P 256 396 241

Type of Service:

- Registered
- Certified
- Express Mail
- Insured
- COD
- Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

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

5. Signature — Addressee

X

6. Signature — Agent

X  
R.G. Moore

7. Date of Delivery

NOV 26 1990

PS Form 3811, Apr. 1989 U.S.G.P.O. 1989-238-815 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  
Tampa Plant Manager  
Gold Bond Building Products  
6110 Commerce Street  
Tampa, Florida 33616

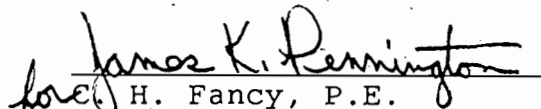
November 14, 1990

Enclosed is construction permit No. AC 29-179018 to increase the firing rate of your gypsum rock dryer. 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

  
for James K. Pennington  
H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

Copy furnished to:

W. Thomas, SW District  
J. Campbell, EPCHC  
W. Sarrells, Gold Bond

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 buisness on 11-15-90.

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.

Keri Daben

Clerk

11-15-90

Date

Final Determination

Gold Bond Building Products  
Tampa, Hillsborough County, Florida

Increase Firing Rate of Gypsum Rock Dryer  
Permit No. AC 29-179018

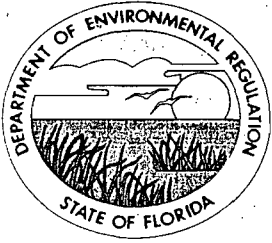
Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Regulation

November 8, 1990

## Final Determination

The Technical Evaluation and Preliminary Determination for the permit to increase the firing rate of the gypsum rock dryer at Gold Bond Building Products in Tampa, Hillsborough County, Florida, was distributed on June 15, 1990. The Notice of Intent to Issue was published in the Tampa Tribune on June 28, 1990. Copies of the evaluation were available for public inspection at the Department's Southwest District office in Tampa and the Bureau of Air Regulation office in Tallahassee.

No comments were submitted on the Department's Intent to Issue the permit. The applicant requested a 90-day extension of the expiration date. The final action of the Department will be to issue construction permit No. AC 29-179018 as proposed in the Technical Evaluation and Preliminary Determination with the requested extension.



# 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, Florida 33616

Permit Number: AC 29-179018  
Expiration Date: March 31, 1991  
County: Hillsborough  
Latitude/Longitude: 27°52'00"N  
82°33'00"W  
Project: Increase Firing Rate of  
Gypsum Rock Dryer

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 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:

For increasing the firing rate of a gypsum rock dryer located at the permittee's Tampa facility in Hillsborough County, Florida. The UTM coordinates are Zone 17, 347.3 km E and 3082.7 km N.

The increase in operating rate shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Construct Air Pollution Sources, DER form 17-1.202(1) received April 2, 1990.

PERMITTEE:

Gold Bond Building Products

Permit Number: AC 29-179018

Expiration Date: March 31, 1991

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

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. Neither 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 is not 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, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; 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.

PERMITTEE:  
Gold Bond Building Products

Permit Number: AC 29-179018  
Expiration Date: March 31, 1991

**GENERAL CONDITIONS:**

6. The permittee shall 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 and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor 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 provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including 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.



PERMITTEE:  
Gold Bond Building Products

Permit Number: AC 29-179018  
Expiration Date: March 31, 1991

**GENERAL CONDITIONS:**

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 for 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 involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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 17-4.120 and 17-30.300, F.A.C., 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 or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

b. The permittee shall hold 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) required by the permit, copies of all reports required by this permit, and

PERMITTEE:  
Gold Bond Building Products

Permit Number: AC 29-179018  
Expiration Date: March 31, 1991

**GENERAL CONDITIONS:**

records of all data used to complete the application for this permit. These materials shall be retained 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 dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. 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 corrected promptly.

**SPECIFIC CONDITIONS:**

1. Maximum production rate for the gypsum rock dryer shall be 110 tons per hour input (wet basis) at a maximum firing rate of 30.0 MMBtu/hr.

2. The gypsum rock dryer may operate 8,736 hours/year.

3. Particulate matter emissions from the gypsum rock dryer shall not exceed 2.8 lbs/hr and 12.4 tons/year.

4. The primary fuel burned in the rock dryer shall be natural gas. No. 2 fuel oil shall be used as standby fuel only and shall contain no more than 0.4% sulfur. If natural gas becomes unavailable, then no more than 1,405,000 gallons of No. 2 fuel oil shall be burned in any 12 month period so that SO<sub>2</sub> emissions shall not exceed 12.2 lbs/hr and 39.9 tons/yr.

5. Visible emissions from the gypsum rock dryer shall not exceed 20% opacity.

PERMITTEE: Permit Number: AC 29-179018  
Gold Bond Building Products Expiration Date: March 31, 1991

**SPECIFIC CONDITIONS:**

6. Fugitive emissions associated with the facility shall be properly controlled or prevented.

7. The permittee shall maintain a daily record of dried rock production and gallons of fuel oil fired in the kiln. If fuel oil is fired, the oil supplier's certified fuel analysis shall be recorded indicating the weight percent sulfur. These records shall be maintained for 2 years and shall be available for inspection by regulatory agency personnel on request.

8. Before this permit expires, the rock dryer shall be sampled for particulate matter and visible emissions. Test procedures shall be in accordance with EPA Reference Methods 5 and 9 as published in 40 CFR 60. The Department and the Environmental Protection Commission of Hillsborough County (EPCHC) shall be notified in writing 15 days or more prior to the compliance test. The test shall be conducted at permitted production capacity or no less than 90% thereof. Actual production rate during the test shall be reported along with the emission results. Two copies of test data shall be submitted to the EPCHC within 45 days of testing.

6. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of this permit (F.A.C. Rule 17-4.090).

7. An application for an operation permit must be submitted to the Department's Southwest District office or the EPCHC office 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 conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

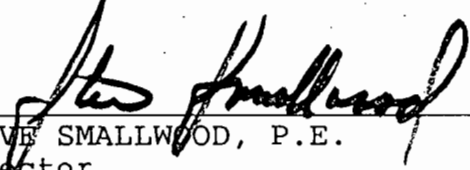
PERMITTEE:  
Gold Bond Building Products

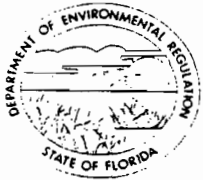
Permit Number: AC 29-179018  
Expiration Date: March 31, 1991

SPECIFIC CONDITIONS:

Issued this 9<sup>th</sup> day  
of November, 1990

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
\_\_\_\_\_  
STEVE SMALLWOOD, P.E.  
Director  
Division of Air Resources  
Management



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: Steve Smallwood  
FROM: Clair Fancy *CF*  
DATE: November 7, 1990  
SUBJ: Approval of Construction Permit No. AC 29-179018  
Gold Bond Building Products

Attached for your approval and signature is a permit prepared by the Bureau of Air Regulation for the above mentioned company to increase the firing rate of their gypsum rock dryer.

No comments were received during the public notice period.

Day 90, after which this permit will be issued by default, is November 18, 1990.

I recommend your approval and signature.

CF/JR/plm

Attachments

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
100 BLAIR STONE ROAD  
TWIN TOWERS OFFICE BUILDING  
TALLAHASSEE, FLORIDA 32399-2700



*RECEIVED*  
*ENVIRONMENTAL REGULATION*  
*STATE OF FLORIDA*  
**UNDELIVERABLE AS ADDRESSED**

Mr. R. G. Moore  
Tampa Plant Mgr.  
Gold Bond Bldg. Products  
6110 Commerce St.  
Tampa, FL 33616

240

*Mailed by P.O. 930*

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

**CERTIFIED**

P 256 396 233

**MAIL**



Is your RETURN ADDRESS completed on the reverse side?

**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. D. Moore  
 Tampa Plant  
 Gold Bond Bldg.  
 6110 Commerce St.  
 Tampa, FL 33616

4. Article Number: P 256 396 233

5. Signature - Addressee: X

6. Signature - Agent: X

7. Date of Delivery: NOV 20 1990

8. Addressee's Address ONLY if requested and fee paid: DER-BAOM

9. Always obtain signature of addressee and DATE DELIVERED.

10. Registered  Insured   
 Certified  COD   
 Express Mail  Return Receipt for Merchandise

Thank you for using Return Receipt Service.

PS Form 3811, Apr. 1989 U.S.G.P.O. 1989-230-815 DOMESTIC RETURN RECEIPT

P 256 396 241

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

Mail to: R. D. Moore

Street and No.: Gold Bond

City, State and ZIP Code: Tampa, FL 33616

Postage: \$1.00

Certified Fee: \$0.50

Special Delivery Fee: \$0.00

Restricted Delivery Fee: \$0.00

Return Receipt showing to whom and Date Delivered: \$0.00

Return Receipt showing to whom, Date, and Address of Delivery: \$0.00

TOTAL Postage and Fees: \$1.50

Postmark or Date: 11-20-90

AC 29-179018

U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

Check Sheet

Company Name: GOLD BOND BUILDING PRODUCTS  
Permit Number: AC 29-179018  
PSD Number: \_\_\_\_\_  
Permit Engineer: \_\_\_\_\_

**Application:**

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

**Cross References:**

- 
- 
- 

**Intent:**

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

Correspondence with:

- EPA
- Park Services
- Other

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

**Final Determination:**

- Final Determination
- Signed Permit
- BACT Determination
- Other

**Post Permit Correspondence:**

- Extensions/Amendments/Modifications
- Other



To: <i>Patty Adams</i>		ROUTE SLIP & PHONE MEMO	
+ Dept. <i>FLA DER</i>		Date <i>10/24/90</i>	Time
CALLER	M _____	<input type="checkbox"/> Telephoned You <input type="checkbox"/> Returned Your Call <input type="checkbox"/> Please Return Call <input type="checkbox"/> Will Call Again <input type="checkbox"/> Called To See You <input type="checkbox"/> URGENT	
	of _____		
	Area Code _____ Tel No. _____ Ext. _____		
<input type="checkbox"/> Please Handle <input type="checkbox"/> Discuss With Me <input type="checkbox"/> Comments		<input type="checkbox"/> For Your Approval <input type="checkbox"/> Note and Return <input type="checkbox"/> Note and Return	
		<input type="checkbox"/> For Your Information <input checked="" type="checkbox"/> Per Your Request	
MESSAGE _____		<b>RECEIVED</b> <b>OCT 29 1990</b> <b>DER BAQM</b>	
From: <i>Doug Collins</i>		Dept. <i>Eng.</i>	
National Gypsum Company Form NG 7715			

THE TAMPA TRIBUNE

Published Daily  
Tampa, Hillsborough County, Florida

State of Florida }  
County of Hillsborough } ss.

Before the undersigned authority personally appeared Kermit J. Kauffman, 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 .....  
BACT  
.....  
was published in said newspaper in the issues of .....  
June 28, 1990.....

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.

*Kermit J. Kauffman*

Sworn to and subscribed before me, this 28 day  
of June, A.D. 19 90

*Debra Lynne Cochran*

(SEAL)

Notary Public, State of Florida  
My Commission Expires Jan. 6, 1993  
Bonded thru Troy Pain - 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 a construction permit to Gold Bond Building Products, 6110 Commerce Street, Tampa, Florida 33616, to increase the firing rate of the gypsum rock dryers at their gypsum board manufacturing facility. A new determination of Best Available Control Technology (BACT) was not required. 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 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, 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 the 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 an 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 by the Department will regard to the application 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 of the above address of the Department. Failure to file a petition within the allowed time frame constitutes a waiver of any right such person has to request or 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 application is available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at: Department of Environmental Regulation, Bureau of Air Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Department of Environmental Regulation, Southwest District, 4520 Oak Ridge Blvd., Tampa, Florida 33610-7347. Environmental Protection Commission of Hillsborough County, 1410 N. 21st Street, Tampa, Florida 33605.  
ANY person may send written comments on the proposed action to Mr. Barry Andrews 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.  
6/28/90 3374

(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 an 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 by the Department will regard to the application 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 of the above address of the Department. Failure to file a petition within the allowed time frame constitutes a waiver of any right such person has to request or 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 application is available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at: Department of Environmental Regulation, Bureau of Air Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Department of Environmental Regulation, Southwest District, 4520 Oak Ridge Blvd., Tampa, Florida 33610-7347. Environmental Protection Commission of Hillsborough County, 1410 N. 21st Street, Tampa, Florida 33605.  
ANY person may send written comments on the proposed action to Mr. Barry Andrews 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.  
6/28/90 3374

RECEIVED

THE TAMPA TRIBUNE

Published Daily

OCT 24 1990

Tampa, Hillsborough County, Florida

DER-BAQM

State of Florida  
County of Hillsborough

Post-It™ brand fax transmittal memo 7671 # of pages 1

To	PATTY ADAMS	From	DOUG COLLINS
Co.	FLA. DER	Co.	GOLD BOND
Dept.		Phone #	704-365-7255
Fax #	(904) 922-6979	Fax #	704-365-7316

B.  
Kermit J. Kauffman, w/  
Tribune, a daily newspaper;  
da; that the attached copy

LEGAL NOTICE

in the matter of

BACT

was published in said newspaper in the issues of

June 28, 1990

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.

*Kermit J. Kauffman*

Sworn to and subscribed before me, this 28 day

of June A.D. 19 90

*Debra Lynne Couillard*

(SEAL)

Notary Public, State of Florida

My Commission Expires June 6, 1993

Bonded thru Troy Rain Insurance Inc.

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

The Department of Environmental Regulation hereby gives notice of its intent to issue a construction permit to Gold Bond Building Products, 6110 Commerce Street, Tampa, Florida 33616, to increase the firing rate of the gypsum rock dryer at their gypsum board manufacturing facility. A new determination of Best Available Control Technology (BACT) was not required. 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 forth below and must be filed in the Office of General Counsel for 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 proposed action;

(d) A statement of the material facts disputed by the 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.

(g) A statement of the relief sought by petitioner, stating briefly 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 form the open-ty 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 by the Department with regard to the application 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 file a petition within that 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. Petition: RYK 11/2/90

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

Department of Environmental Regulation  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Department of Environmental Regulation  
Bureau of Air Regulation  
Southwest District  
4520 Oak Figs Blvd.  
Tampa, Florida 33610-7347

Environmental Protection Commission of Hillsborough County  
1410 N. 21st Street  
Tampa, Florida 33605

Any person may send written comments on the proposed action to Mr. Barry Andrews 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. Mr. Barry Andrews  
3374  
6/28/90





# 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

June 15, 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

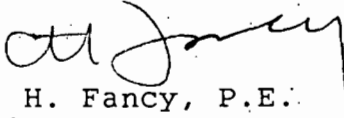
Mr. R. G. Moore  
Tampa Plant Manager  
Gold Bond Building Products  
6110 Commerce Street  
Tampa, Florida 33616

Dear Mr. Moore:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for increasing the firing rate of the gypsum rock dryer at your Tampa Facility.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Barry Andrews.

Sincerely,

  
C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

CHF/JR/plm

Attachments

c: W. Thomas, SW District  
J. Campbell, EPCHC  
W. Sarrells, Gold Bond

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permit by:

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

DER File No. AC 29-179018

---

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application 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 April 2, 1990, to the Department of Environmental Regulation for a construction permit to increase the firing rate of a gypsum rock dryer at their existing facility in Tampa, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit is required 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 Permit. The notice shall 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 permit.

The Department will issue the permit 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 public notice or within 14 days of receipt of this intent, whichever first occurs. 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

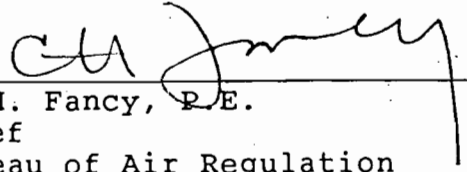
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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 application(s) 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 in 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.  
Chief  
Bureau of Air Regulation

Copies furnished to:

W. Thomas, SW District  
J. Campbell, EPCHC  
W. Sarrells, Gold Bond



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 6-18-90.

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.

Karin Doherty 6-18-90  
Clerk Date

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 a construction permit to Gold Bond Building Products, 6110 Commerce Street, Tampa, Florida 33616, to increase the firing rate of the gypsum rock dryer at their gypsum board manufacturing facility. A new determination of Best Available Control Technology (BACT) was not required. 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 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, 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 application 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 application is available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

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

Environmental Protection Commission  
of Hillsborough County  
1410 N. 21st Street  
Tampa, Florida 33605

Any person may send written comments on the proposed action to Mr. Barry Andrews 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  
Tampa, Hillsborough County, Florida

Increase Firing Rate of Gypsum Rock Dryer  
Permit No. AC 29-179018

Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Regulation

June 15, 1990

I. Application

A. Address

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

B. Request

The Department received a complete application on April 2, 1990, for increasing the firing rate of a gypsum rock dryer at the applicant's facility in Tampa, Florida.

C. Location/Classification

The applicant's gypsum board manufacturing facility (SIC Code 3275) is located at 6110 Commerce Street in Tampa. Latitude and longitude are 27°52'00"N and 82°33'00"W, respectively. UTM coordinates are 17-347.3 km E and 3,082.7 km N.

II. Project Description/Emissions

The applicant proposes to increase the maximum firing rate of the gypsum rock dryer from 10.9 to 30 MMBtu/hr. Emissions of particulate matter from the gypsum rock dryer will remain insignificant at 2.8 lbs/hr and 12.4 tons/yr.

III. Rule Applicability

The construction permit application is subject to review under Chapter 403, Florida Statutes and Florida Administrative code (F.A.C.) Chapters 17-2 and 17-4. The source is located in an area of influence of a nonattainment area for particulate matter. The area is classified as attainment for other criteria pollutants except ozone (nonattainment) and SO<sub>2</sub> for which the location is designated as unclassifiable [F.A.C. Rule 17-2.410(1) and (2); 17-2.420; and 17-2.430(2)]. New source review requirements under F.A.C. Rule 17-2.510 do not apply since the net emission increases are below significant levels. The RACT limits for particulate matter and visible emissions (F.A.C. Rule 17-2.650(2)(c)12.6) would apply except that the source has a BACT determination pursuant to F.A.C. Rule 17-2.630.

IV. Conclusion

Based on the information provided by Gold Bond Building Products, the Department has reasonable assurance that increasing the firing rate of the gypsum rock dryer, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.

*Barry D. Anderson*  
# 36024  
6-18-90



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**

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

Permit Number: AC 29-179018

Expiration Date: December 31, 1990

County: Hillsborough

Latitude/Longitude: 27°52'00"N  
82°33'00"W

Project: Increase Firing Rate of  
Gypsum Rock Dryer

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 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:

For increasing the firing rate of a gypsum rock dryer located at the permittee's Tampa facility in Hillsborough County, Florida. The UTM coordinates are Zone 17, 347.3 km E and 3082.7 km N.

The increase in operating rate shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Construct Air Pollution Sources, DER form 17-1.202(1) received April 2, 1990.

**PERMITTEE:**

Gold Bond Building Products

**Permit Number:** AC 29-179018

**Expiration Date:** December 31, 1990

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
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. Neither 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 is not 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, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; 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.

PERMITTEE:  
Gold Bond Building Products

Permit Number: AC 29-179018  
Expiration Date: December 31, 1990

**GENERAL CONDITIONS:**

6. The permittee shall 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 and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor 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 provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including 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.



PERMITTEE:  
Gold Bond Building Products

Permit Number: AC 29-179018  
Expiration Date: December 31, 1990

**GENERAL CONDITIONS:**

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 for 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 involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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 17-4.120 and 17-30.300, F.A.C., 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 or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit constitutes a Determination of Best Available Control Technology (BACT).

14. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

b. The permittee shall hold 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) required by the permit, copies of all reports required by this permit, and

PERMITTEE:  
Gold Bond Building Products

Permit Number: AC 29-179018  
Expiration Date: December 31, 1990

**GENERAL CONDITIONS:**

records of all data used to complete the application for this permit. These materials shall be retained 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 dates 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 corrected promptly.

**SPECIFIC CONDITIONS:**

1. Maximum production rate for the gypsum rock dryer shall be 110 tons per hour input (wet basis) at a maximum firing rate of 30.0 MMBtu/hr.

2. The gypsum rock dryer may operate 8,736 hours/year.

3. Particulate matter emissions from the gypsum rock dryer shall not exceed 2.8 lbs/hr and 12.4 tons/year.

4. The primary fuel burned in the rock dryer shall be natural gas. No. 2 fuel oil shall be used as standby fuel only and shall contain no more than 0.4% sulfur. If natural gas becomes unavailable, then no more than 1,405,000 gallons of No. 2 fuel oil shall be burned in any 12 month period so that SO<sub>2</sub> emissions shall not exceed 12.2 lbs/hr and 39.9 tons/yr.

5. Visible emissions from the gypsum rock dryer shall not exceed 20% opacity.

PERMITTEE:

Gold Bond Building Products

Permit Number: AC 29-179018

Expiration Date: December 31, 1990

**SPECIFIC CONDITIONS:**

6. Fugitive emissions associated with the facility shall be properly controlled or prevented.

7. The permittee shall maintain a daily record of dried rock production and gallons of fuel oil fired in the kiln. If fuel oil is fired, the oil supplier's certified fuel analysis shall be recorded indicating the weight percent sulfur. These records shall be maintained for 2 years and shall be available for inspection by regulatory agency personnel on request.

8. Before this permit expires, the rock dryer shall be sampled for particulate matter and visible emissions. Test procedures shall be in accordance with EPA Reference Methods 5 and 9 as published in 40 CFR 60. The Department and the Environmental Protection Commission of Hillsborough County (EPCHC) shall be notified in writing 15 days or more prior to the compliance test. The test shall be conducted at permitted production capacity or no less than 90% thereof. Actual production rate during the test shall be reported along with the emission results. Two copies of test data shall be submitted to the EPCHC within 45 days of testing.

6. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of this permit (F.A.C. Rule 17-4.090).

7. An application for an operation permit must be submitted to the Department's Southwest District office or the EPCHC office 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 conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

**PERMITTEE:**  
Gold Bond Building Products

**Permit Number:** AC 29-179018  
**Expiration Date:** December 31, 1990

**SPECIFIC CONDITIONS:**

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1990

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION**

---

STEVE SMALLWOOD, P.E.  
Director  
Division of Air Resources  
Management

# ROUTING AND TRANSMITTAL SLIP

ACTION NO.

ACTION DUE DATE

1. TO: (NAME-OFFICE-LOCATION)

*L. J. Swaney*

Initial

Date

Initial

Date

Initial

Date

Initial

Date

REMARKS:

*This should be forwarded to Jim Pennington. Our office would not be the one to issue this permit. Thanks!*

### 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

Other Processing

Other Action

DATE

*4/15/90*

PHONE

*(813) 625-5561*

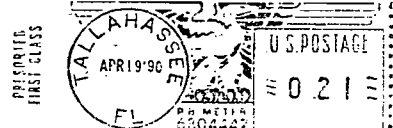
*ext 367*

**RECEIVED**  
**APR 17 1990**  
**DER-BAQM**

*FROM: Stacy M. ...*

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
2800 BLAIR STONE ROAD  
TWIN TOWERS OFFICE BUILDING  
TALLAHASSEE, FLORIDA 32399-2400

500202



*AQ*

*Re-sent  
To P.O. Box  
19307  
TPA 33616  
4/30/90*

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



A National Gypsum Division

March 26, 1990

State of Florida  
Department of Environmental  
Regulation  
2600 Blair Stone Road  
Twin Towers Office Bldg.  
Tallahassee, Florida 32399-2400

Attn: Mr. James K. Pennington

Re: Rock Dryer Permit #AC29-155612  
(A029-168005)

Dear Mr. Pennington:

As per your letter dated March 2, 1990, attached is a completed Construction Permit application and a check for \$200 for the permit fee for the above unit.

This application includes our request for the following changes:

1. Change the operating hours from 16 hrs./day to 24 hrs./day.
2. Change the process rate from 90 tons/hr. to 110 tons/hr.
3. Change the maximum firing rate from 10.9 MM BTU's to 30.0 MM BTU's/hr.

If you have any further questions, please let us know.

Sincerely yours,

*D. B. Collins*

D. B. Collins  
Environmental Engineer

DBC/mmm  
attachments

- cc: B. Thomas, S.W. District  
J. Campbell, EPCHC  
P. H. Chheda, Dir. of Eng.  
E. J. Reich, Chief Mech. Eng.  
R. G. Moore, Tampa Plant Mgr.

*36 000000 010801*  
*# 1032*  
*E.O. TI*  
*cash paid to Tampa*

RECEIVED  
ACCOUNTING & BUDGETING  
90 APR 16 PM 3:56

RECEIVED  
DER - MAIL ROOM  
1990 APR - 2 AM 10:51

RECEIVED  
APR 17 1990  
DER-BAQM

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

#200pd.  
4-2-90  
Receipt #151114

SOUTHWEST DISTRICT  
7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610



AC 29-179018

BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY  
WILLIAM K. HENNESSEY  
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: AIR POLLUTION [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

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

COMPANY NAME: NATIONAL GYPSUM CO.  
GOLD BOND BUILDING PRODUCTS 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) ROCK DRYER FABRIC FILTER

SOURCE LOCATION: Street 6110 COMMERCE STREET City PORT TAMPA

UTM: East 17-347.3 North 3082.7

Latitude 27 ° 52 ' \_\_\_ "N Longitude 82 ° 33 ' \_\_\_ "W

APPLICANT NAME AND TITLE: R. G. MOORE, TAMPA PLANT MANAGER

APPLICANT ADDRESS: 6110 COMMERCE STREET, TAMPA, FL 33616

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of NATIONAL GYPSUM CO.  
GOLD BOND BUILDING PRODUCTS

I certify that the statements made in this application for a REVISION TO OPERATING HOURS, 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)

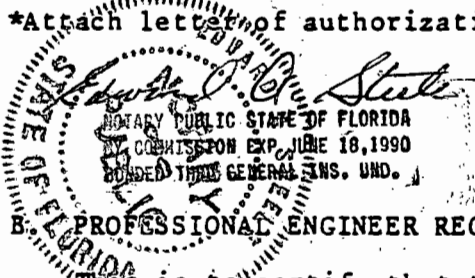
Date: 2-30-90 Telephone No. (813) 839-2111

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

<sup>1</sup> See Florida Administrative Code Rule 17-2.100(57) and (104)

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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 Wayne C. Sarrells

WAYNE C. SARRELLS

Name (Please Type)

GOLD BOND BUILDING PRODUCTS

Company Name (Please Type)

2001 REXFORD RD., CHARLOTTE, N.C. 28211

Mailing Address (Please Type)

Florida Registration No. 32044

Date: 3/26/90

Telephone No. 704/365-7300

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 AN APPLICATION TO CHANGE OPERATING HOURS FROM 16 TO 24 HRS./DAY, THE PROCESS RATE FROM 90 T/HR. TO 110 T/HR., AND THE MAXIMUM HEAT INPUT RATE FROM 10.9 MM BTU'S/HR. TO 30.0 MM BTU'S/HR.

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

Start of Construction N/A Completion of Construction N/A

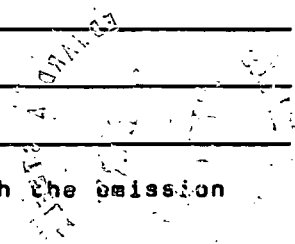
C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

N/A

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

AC 29-31040

AO 29-126064





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) N/A

1. Is this source in a non-attainment area for a particular pollutant? \_\_\_\_\_
  - a. If yes, has "offset" been applied? \_\_\_\_\_
  - b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_
  - c. If yes, list non-attainment pollutants. \_\_\_\_\_
2. Does best available control technology (BACT) apply to this source?  
If yes, see Section VI. \_\_\_\_\_
3. Does the State "Prevention of Significant Deterioration" (PSD)  
requirement apply to this source? If yes, see Sections VI and VII. \_\_\_\_\_
4. Do "Standards of Performance for New Stationary Sources" (NSPS)  
apply to this source? \_\_\_\_\_
5. Do "National Emission Standards for Hazardous Air Pollutants"  
(NESHAP) apply to this source? \_\_\_\_\_

- H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? N/A \_\_\_\_\_
- a. If yes, for what pollutants? \_\_\_\_\_
  - 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 justifi-  
cation for any answer of "No" that might be considered questionable.

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**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		
GYPSUM			220,000	

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

- Total Process Input Rate (lbs/hr): 220,000
- Product Weight (lbs/hr): 209,000 (5% H<sub>2</sub>O Removed)

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
GYPSUM	2.83	12.39	E = 17.31P <sup>16</sup> P = 110 T/HR.	36.72	2,828	12,400	
SO <sub>2</sub>	12.17	N/A			12.17	N/A	
NO <sub>x</sub>	2.18	9.55			2.18	9.55	

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>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)

<sup>3</sup>Calculated from operating rate and applicable standard.

<sup>4</sup>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)
RAY-JET BAGHOUSE				
#9-MEW55	GYPSUM	99%	UNKNOWN	

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
NATURAL GAS	0.01558 MMCF/HR.	0.02921 MMCF/HR.	30.0 MM BTU'S/HR.
NO. 2 FUEL OIL 0.4% S	114.3 GPH	214.3 GPH	30.0 MM BTU'S/HR.

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

Fuel Analysis:

Percent Sulfur: NO. 2 FUEL OIL 0.4% S Percent Ash: 0  
 Density: UNKNOWN lbs/gal. Typical Percent Nitrogen: UNKNOWN  
 Heat Capacity: 1,027 BTU'S/CF BTU/lb NO. 2 FUEL OIL @ 140,000 BTU/gal  
 Other Fuel Contaminants (which may cause air pollution): NONE

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

Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

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

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

Stack Height: 64" ft. Stack Diameter: 42" ft.  
 Gas Flow Rate: 23,600 ACFM 16,500 DSCFM Gas Exit Temperature: 180-200 °F.  
 Water Vapor Content: 10% % Velocity: \_\_\_\_\_ 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) <sup>3</sup>	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.):

N/A

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:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

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:<sup>1</sup>
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:<sup>2</sup>
- 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:<sup>1</sup>
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:<sup>2</sup>
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>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:<sup>1</sup>

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

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:<sup>1</sup>

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

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:<sup>1</sup>

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:<sup>2</sup>

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.



(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


(8) Process Rate:<sup>1</sup>

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


(8) Process Rate:<sup>1</sup>

10. Reason for selection and description of systems:

<sup>1</sup>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<sub>2</sub>\* \_\_\_\_\_ 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

- 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 <sup>2</sup>	_____ 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

1. Process Rate

Rock Dryer = 110 T/Hr. Raw Gypsum Input  
Remove 5% by Weight Surface  
Water = 104.5 T/Hr. Output

2. Emissions

Particulates = Based on allowed limit of .02 GRS/SDCF  
and exhaust air flow rate of 16,500  
SDCFM = .02 GRS/SDCF x  
16,500 SDCFM x 60 ÷ 7,000 GRS/Lb. = 2.83  
Lbs./Hr.

Tons/Yr. = 2.83 Lbs./Hr. x 8,760 Hrs.  
÷ 2,000 = 12.4 Tons/Yr.

SO<sub>2</sub> = Based on using no. 2 fuel oil as stand-by  
fuel on daily basis only. Using AP-42  
factor 142S Lbs./1,000 Gal. allowed .4% S  
at 214.3 Gal./Hr. = 142 x .4 = 56.8 Lbs.  
SO<sub>2</sub>/1,000 Gal.  
.2143 x 56.8 = 12.17 Lbs./Hr. SO<sub>2</sub>

NO<sub>x</sub> = Based on natural gas year-round usage,  
AP-42 factor 140 Lbs./MMCF, at 15,580  
CF/Hr. = 140 x .01558 = 2.18 Lbs./Hr.

Tons/Yr. = 2.18 x 8,760 Hrs. ÷ 2,000 =  
9.55 Tons/Yr.

3. Potential Particulate Emissions Without Baghouse:

Estimate grain loading = 20 GRS/SDCF = 20 GRS/SDCF x  
16,500 SDCFM x 16,500 SDCFM x 60 ÷ 7,000 GRS/Lb. =  
2,828 Lbs./Hr.

Tons/Yr. = 2,828 Lbs./Hr. x 8,760 ÷ 2,000 = 12,400  
Tons/Yr.

Estimated Baghouse Efficiency =

$$\frac{2,828 \text{ Lbs./Hr.} - 2.83 \text{ Lbs./Hr.} \times 100}{2,828 \text{ Lbs./Hr.}} =$$

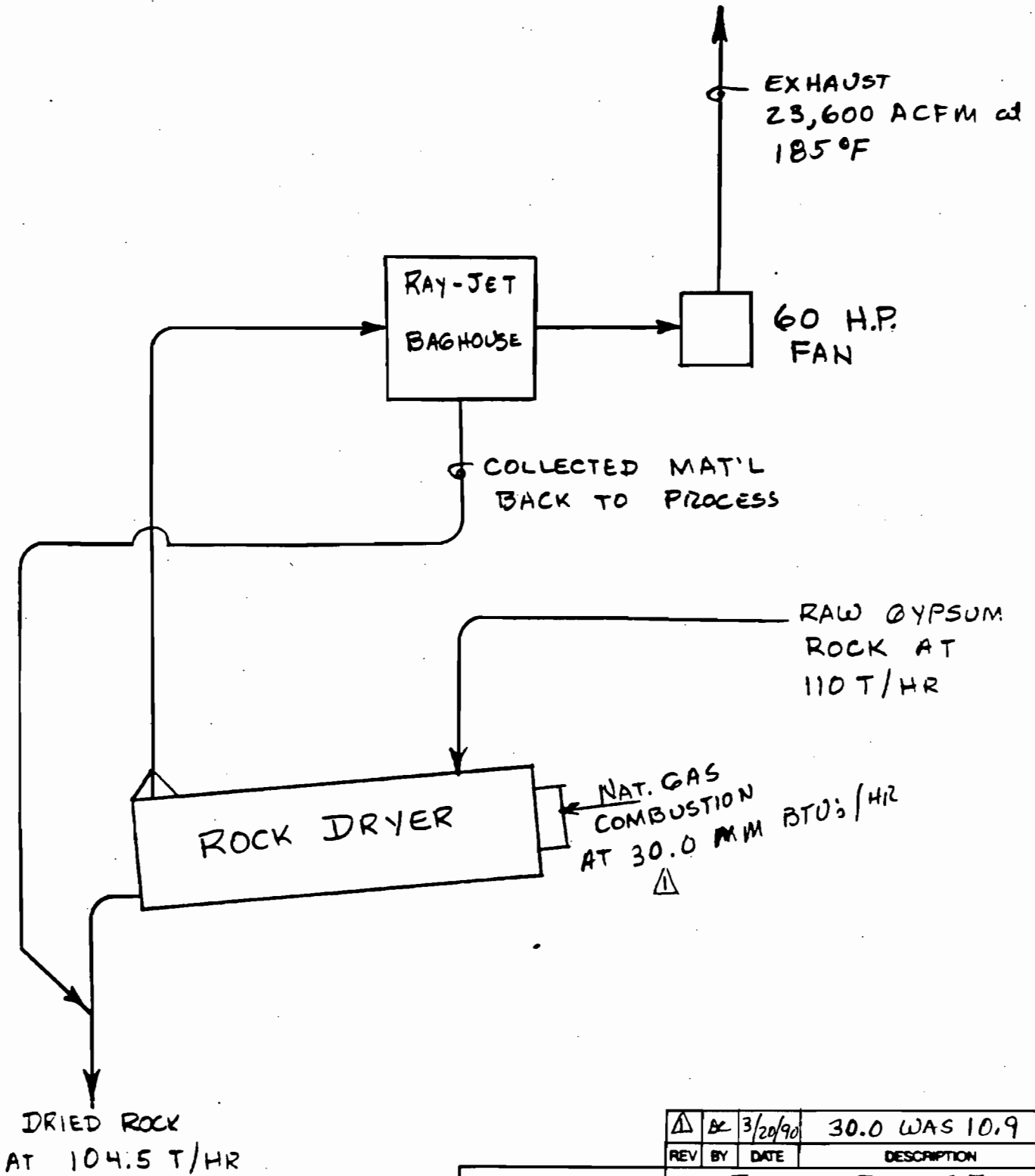
99.89%

4. Dust Collector:


Ray-Jet #9 MEW-55  
4,950 Sq. Ft. Fabric, 14 oz. Nomex  
A/C Ratio =  $23,600 \div 4,950 = 4.8:1$

III c. E = 17.31 p.16  
= 17.31 x 110.16  
= 36.72 Lbs./Hr. (Allowable Emissions)

5. Manufacturers' Data
6. See Attached
7. See General Information
8. See Attached
9. Fees Attached (\$200) Potential emission with control unit < 25T/Yr.



Δ	BC	3/20/90	30.0 WAS 10.9
REV	BY	DATE	DESCRIPTION
ROCK DRYER FLOW CHART			
SCALE		DATE 8-25-88	
DRAWN DBC		TAMPA	
CHECK		SK082588-3	
APPD			
PROJ.			
		REV.	1


**Gold Bond Building Products**  
 A National Gypsum Division  
 2801 Rosford Road  
 Charlotte, North Carolina 28211

8/14/88

TABLE 1.4-1. UNCONTROLLED EMISSION FACTORS FOR NATURAL GAS COMBUSTION<sup>a</sup>

Furnace Size & Type (10 <sup>6</sup> Btu/hr heat input)	Particulates <sup>b</sup>		Sulfur <sup>c</sup> Dioxide		Nitrogen <sup>d,e</sup> Oxide		Carbon <sup>f,g</sup> Monoxide		Volatile Organics			
	kg/10 <sup>6</sup> m <sup>3</sup>	lb/10 <sup>6</sup> ft <sup>3</sup>	kg/10 <sup>6</sup> m <sup>3</sup>	lb/10 <sup>6</sup> ft <sup>3</sup>	kg/10 <sup>6</sup> m <sup>3</sup>	lb/10 <sup>6</sup> ft <sup>3</sup>	kg/10 <sup>6</sup> m <sup>3</sup>	lb/10 <sup>6</sup> ft <sup>3</sup>	Nonmethane		Methane	
	kg/10 <sup>6</sup> m <sup>3</sup>	lb/10 <sup>6</sup> ft <sup>3</sup>	kg/10 <sup>6</sup> m <sup>3</sup>	lb/10 <sup>6</sup> ft <sup>3</sup>	kg/10 <sup>6</sup> m <sup>3</sup>	lb/10 <sup>6</sup> ft <sup>3</sup>	kg/10 <sup>6</sup> m <sup>3</sup>	lb/10 <sup>6</sup> ft <sup>3</sup>	kg/10 <sup>6</sup> m <sup>3</sup>	lb/10 <sup>6</sup> ft <sup>3</sup>	kg/10 <sup>6</sup> m <sup>3</sup>	lb/10 <sup>6</sup> ft <sup>3</sup>
Utility boilers (>100)	16-80 <sup>g</sup>	1-5	9.6	0.6	8800 <sup>h</sup>	550 <sup>h</sup>	640	40	23	1.4	4.8	0.3
Industrial boilers (10 - 100)	16-80	1-5	9.6	0.6	2240	140	560	35	44	2.8	48	3
Domestic and commercial boilers (<10)	16-80	1-5	9.6	0.6	1600	100	320	20	84	5.3	43	2.7

<sup>a</sup>All emission factors are expressed as weight per volume fuel fired.

<sup>b</sup>References 15-18.

<sup>c</sup>Reference 4 (based on an average sulfur content of natural gas of 4600 g/10<sup>6</sup> Nm<sup>3</sup> (2000 gr/10<sup>6</sup> scf)).

<sup>d</sup>References 4-5,7-8,11,14,18-19,21.

<sup>e</sup>Expressed as NO<sub>2</sub>. Test results indicate that about 95 weight % of NO<sub>x</sub> is NO.

<sup>f</sup>References 4,7-8,16,18,22-25.

<sup>g</sup>References 16 and 18. May increase 10 to 100 times with improper operation or maintenance.

<sup>h</sup>Use 4400 kg/10<sup>6</sup> m<sup>3</sup> (275 lb/10<sup>6</sup> ft<sup>3</sup>) for tangentially fired units. At reduced loads, multiply this factor by the load reduction coefficient given in Figure 1.4-1. See text for potential NO<sub>x</sub> reductions by combustion modifications. Note that the NO<sub>x</sub> reduction from these modifications will also occur at reduced load conditions.

# Best Available Copy

## TABLE 1.3-1. UNCONTROLLED EMISSION FACTORS FOR FUEL OIL COMBUSTION

EMISSION FACTOR RATING: A

Boiler Type <sup>a</sup>	Particulate <sup>b</sup> Matter		Sulfur Dioxide <sup>c</sup>		Sulfur Trioxide		Carbon Monoxide <sup>d</sup>		Nitrogen Oxide <sup>e</sup>		Volatile Organics <sup>f</sup> Nonmethane		Methane	
	kg/10 <sup>3</sup> l	lb/10 <sup>3</sup> gal	kg/10 <sup>3</sup> l	lb/10 <sup>3</sup> gal	kg/10 <sup>3</sup> l	lb/10 <sup>3</sup> gal	kg/10 <sup>3</sup> l	lb/10 <sup>3</sup> gal	kg/10 <sup>3</sup> l	lb/10 <sup>3</sup> gal	kg/10 <sup>3</sup> l	lb/10 <sup>3</sup> gal	kg/10 <sup>3</sup> l	lb/10 <sup>3</sup> gal
Utility Boilers Residual Oil	g	g	19S	157S	0.34S <sup>h</sup>	2.9S <sup>h</sup>	0.6	S	8.0 (12.6)(5) <sup>i</sup>	67 (105)(42) <sup>i</sup>	0.09	0.76	0.03	0.28
Industrial Boilers Residual Oil	g	g	19S	157S	0.24S	2S	0.6	S	6.6 <sup>j</sup>	55 <sup>j</sup>	0.034	0.28	0.12	1.0
Distillate Oil	0.24	2	17S	142S	0.24S	2S	0.6	S	2.4	20	0.024	0.2	0.006	0.052
Commercial Boilers Residual Oil	g	g	19S	157S	0.24S	2S	0.6	S	6.6	55	0.14	1.13	0.057	0.475
Distillate Oil	0.24	2	17S	142S	0.24S	2S	0.6	S	2.4	20	0.04	0.34	0.026	0.216
Residential Furnaces Distillate Oil	0.3	2.5	17S	142S	0.24S	2S	0.6	S	2.2	18	0.085	0.713	0.214	1.78

<sup>a</sup>Boilers can be approximately classified according to their gross (higher) heat rate as shown below:

Utility (power plant) boilers:  $>106 \times 10^9$  J/hr ( $>100 \times 10^6$  Btu/hr)

Industrial boilers:  $10.6 \times 10^9$  to  $106 \times 10^9$  J/hr ( $10 \times 10^6$  to  $100 \times 10^6$  Btu/hr)

Commercial boilers:  $0.5 \times 10^9$  to  $10.6 \times 10^9$  J/hr ( $0.5 \times 10^6$  to  $10 \times 10^6$  Btu/hr)

Residential furnaces:  $<0.5 \times 10^9$  J/hr ( $<0.5 \times 10^6$  Btu/hr)

<sup>b</sup>References 3-7 and 24-25. Particulate matter is defined in this section as that material collected by EPA Method 5 (front half catch).

<sup>c</sup>References 1-5. S indicates that the weight % of sulfur in the oil should be multiplied by the value given.

<sup>d</sup>References 3-5 and 8-10. Carbon monoxide emissions may increase by factors of 10 to 100 if the unit is improperly operated or not well maintained.

<sup>e</sup>Expressed as NO<sub>x</sub>. References 1-5, 8-11, 17 and 26. Test results indicate that at least 95% by weight of NO<sub>x</sub> is NO for all boiler types except residential furnaces, where about 75% is NO.

<sup>f</sup>References 18-21. Volatile organic compound emissions are generally negligible unless boiler is improperly operated or not well maintained, in which case emissions may increase by several orders of magnitude.

<sup>g</sup>Particulate emission factors for residual oil combustion are, on average, a function of fuel oil grade and sulfur content:

Grade 6 oil:  $1.25(S) + 0.38$  kg/10<sup>3</sup> liter [ $10(S) + 3$  lb/10<sup>3</sup> gal] where S is the weight % of sulfur in the oil. This relationship is

based on 81 individual tests and has a correlation coefficient of 0.65.

Grade 5 oil: 1.25 kg/10<sup>3</sup> liter (10 lb/10<sup>3</sup> gal)

Grade 4 oil: 0.88 kg/10<sup>3</sup> liter (7 lb/10<sup>3</sup> gal)

<sup>h</sup>Reference 25.

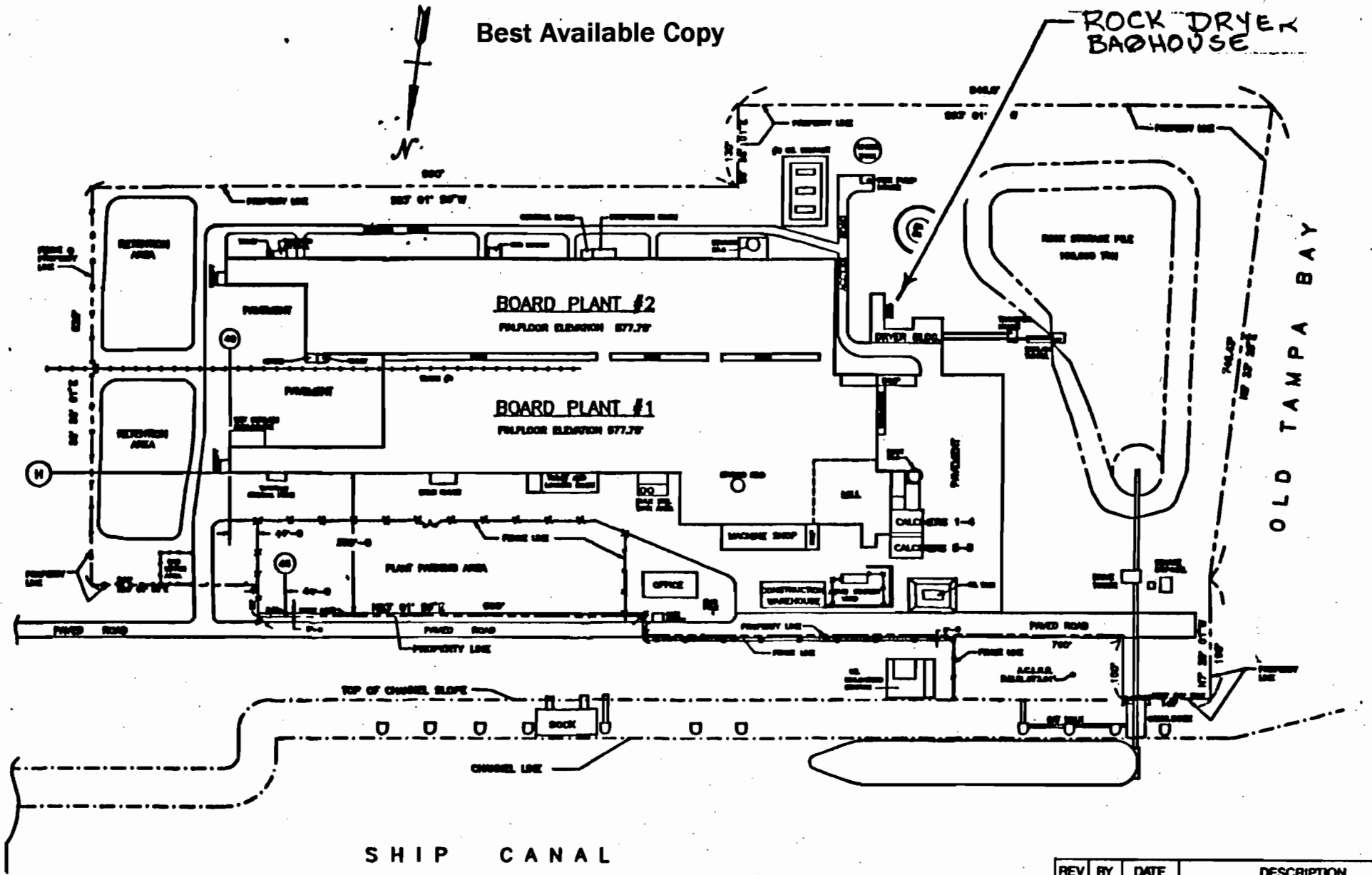
<sup>i</sup>Use 5 kg/10<sup>3</sup> liters (42 lb/10<sup>3</sup> gal) for tangentially fired boilers, 12.6 kg/10<sup>3</sup> liters (105 lb/10<sup>3</sup> gal) for vertical fired boilers, and 8.0 kg/10<sup>3</sup> liters (67 lb/10<sup>3</sup> gal) for all others, at full load and normal (>15%) excess air. Several combustion modifications can be employed for NO<sub>x</sub> reduction: (1) limited excess air can reduce NO<sub>x</sub> emissions 5-20%, (2) staged combustion 20-40%, (3) using low NO<sub>x</sub> burners 20-50%, and (4) ammonia injection can reduce NO<sub>x</sub> emissions 40-70% but may increase emissions of ammonia. Combinations of these modifications have been employed for further reductions in certain boilers. See Reference 23 for a discussion of these and other NO<sub>x</sub> reducing techniques and their operational and environmental impacts.

<sup>j</sup>Nitrogen oxides emissions from residual oil combustion in industrial and commercial boilers are strongly related to fuel nitrogen content, estimated more accurately by the empirical relationship:

$\text{kg NO}_x/10^3 \text{ liters} = 2.75 + 50(N)^2$  [ $\text{lb NO}_x/10^3 \text{ gal} = 22 + 400(N)^2$ ] where N is the weight % of nitrogen in the oil. For residual oils having high (>0.5 weight %) nitrogen content, use 15 kg NO<sub>x</sub>/10<sup>3</sup> liter (120 lb NO<sub>x</sub>/10<sup>3</sup> gal) as an emission factor.



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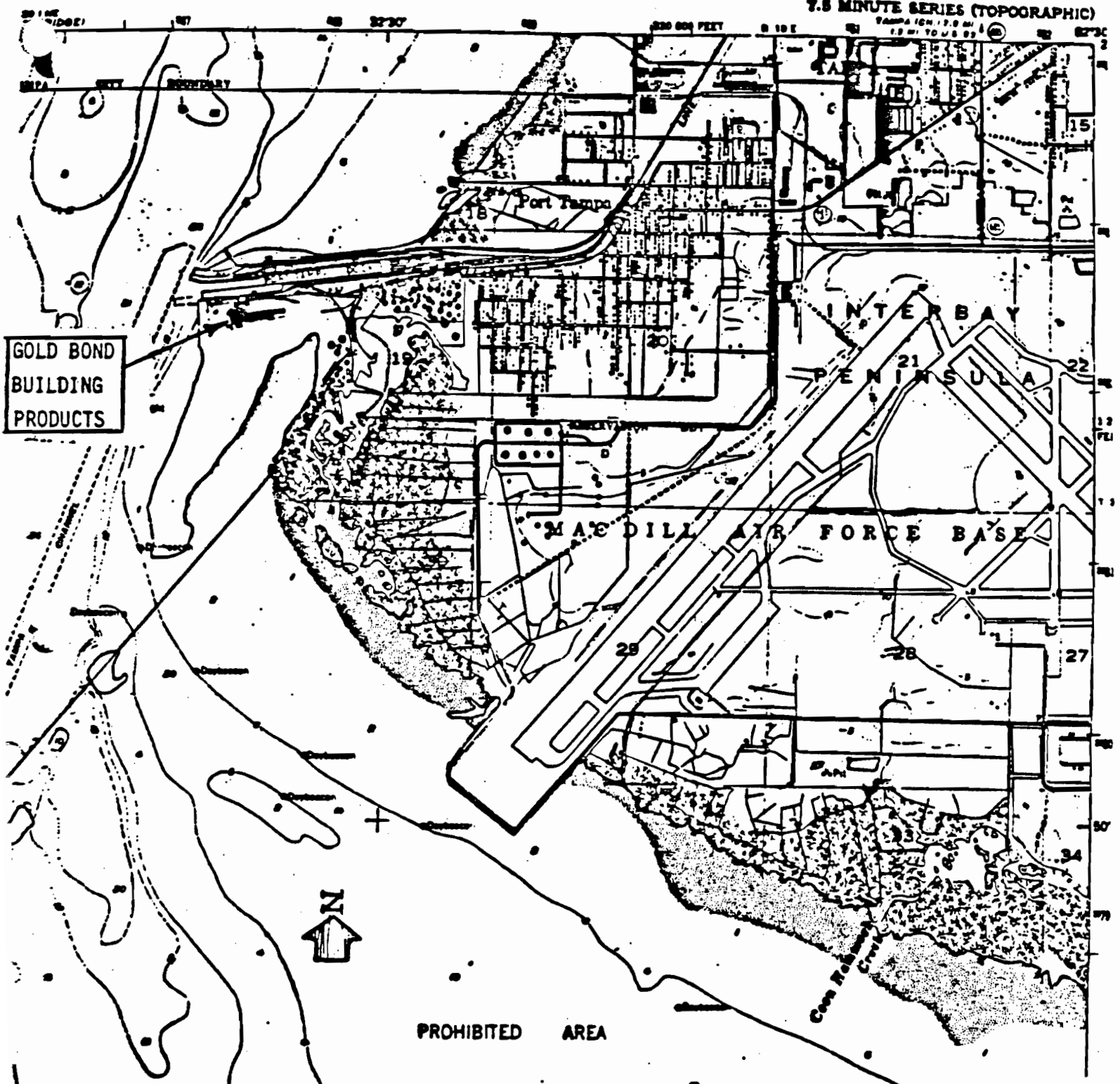


REV	BY	DATE	DESCRIPTION
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DRAWN DBC		TAMPA	
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	DRAWN <i>DBL</i>	TAMPA	
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