

Check Sheet

Company Name: GOLD BOND BUILDING PRODUCTS

Permit Number: AC 29-147504

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

P 702 177 468
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. Bldg. Products P.O. Box 19307	
P.O. State and ZIP Code Tampa, FL 33616	
Postage	S
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	S
Postmark or Date Mailed: 8-1-88 Permit: AC 29-147504	

PS Form 3800, June 1985

● **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. <input checked="" type="checkbox"/> Show to whom delivered, date, and addressee's address. ↑/Extra charge/↑	2. <input type="checkbox"/> Restricted Delivery ↑/Extra charge/↑
3. Article Addressed to: Mr. R. G. Moore Tampa Plant Manager Gold Bond Building Products P. O. Box 19307 Tampa, FL 33616	
4. Article Number P 702 177 468	Type of Service: <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> COD
5. Signature — Addressee X	
6. Signature — Agent X <i>Margaret J. Jansson</i>	
7. Date of Delivery 8-3-88	
8. Addressee's Address (ONLY if requested and fee paid) TAMPA FL 33616 1988 USPO	

PS Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268 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 Mgr.
Gold Bond Building Products
Post Office Box 19307
Tampa, Florida 33616

July 29, 1988

Enclosed is permit No. AC 29-147504 for Gold Bond Building Products to install a replacement kiln at their facility in 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

for C. H. Fancy

C. H. Fancy, P.E.
Deputy Chief

Bureau of Air Quality Management

Copy furnished to:

W. Thomas, SW District
J. Campbell, EPCHC
P. Chheda

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 August 1, 1988.

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.

Marta J. Wise August 1, 1988
Clerk Date

Final Determination

**Gold Bond Building Products
Tampa (Hillsborough County), Florida**

**Construction of Replacement Kiln
Permit No. AC 29-147504**

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

July 26, 1988

Final Determination

The Bureau of Air Quality Management completed its review of the applicant's proposed project on April 22, 1988. Public Notice of the Department's intent to issue a permit for the proposed construction was published in the Tampa Tribune on June 3, 1988. Copies of the Technical Evaluation and Preliminary Determination were available for public inspection at the Department's offices in Tampa and Tallahassee.

Comments were submitted by the Environmental Protection Commission of Hillsborough County (EPCHC). The issues and the Department's responses are below:

Issue No. 1: Whether the applicant should be required to conduct the compliance testing using standby distillate fuel oil instead of natural gas.

The EPCHC requested that the visible emissions compliance test be conducted while firing the kiln with standby distillate fuel oil since it is less clean burning than natural gas. The standby fuel is distillate oil containing a maximum of 0.35 percent sulfur. The fuel during normal operation will be natural gas. EPCHC staff are concerned that the distillate fuel oil may yield a stack opacity higher than the 5 percent opacity which was specified as a permit condition. Calculations based on AP-42 emission factors indicate that particulate emissions will be two to four times greater when burning distillate oil than when burning natural gas. However, the calculations show that the concentration of particulate matter in the stack while firing distillate fuel oil will be only .0087 gr/SCF. This concentration is well below the .03 gr/SCF particulate level which is equivalent to 5 percent opacity (See RACT Rule 17-2.650(2)(c)11.b. and 12.b.; also see the "Visible Emissions Evaluation Training Manual" published by the Institute for Air Pollution Training, Section Seven, "Standards for Particulate Emissions," Table 5, pg. 10). Thus there is no need for the visible emission test to be conducted using standby distillate fuel oil. Such would not be the case, however, if the standby fuel was residual oil.

Issue No. 2: Whether the compliance test should include sampling for sulfur dioxide emissions.

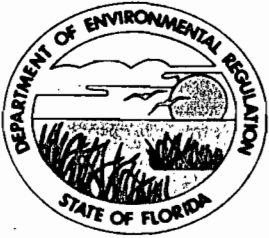
The EPCHC wants the compliance test to include sampling for sulfur dioxide emissions. The Department believes that SO₂ sampling should be required only if the distillate fuel oil is used on a regular basis. It is noted that the operating permit for the existing kiln requires a fuel oil sulfur analysis only if fuel oil is used for 7 consecutive days. This requirement will be added to Specific Condition No. 5.

Issue No. 3: Whether multiple copies of test data shall be submitted to the EPCHC.

The EPCHC requested that the proposed permit be amended to provide them with two copies of test data. The permit will be modified accordingly.

Conclusion

The Department intends to issue the permit as modified above.



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 29-147504
Expiration Date: August 31, 1989
County: Hillsborough
Latitude: 27°52'00"N
Longitude: 82°33'00"W
Project: Construction of
Replacement Kiln

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:

For the construction of a replacement kiln 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 construction shall be in accordance with the attached permit application except as otherwise noted under the General Conditions and Specific Conditions set forth in this permit.

Attachments:

1. Application to Construct Air Pollution Sources, DER form 17-1.202(1) dated March 22, 1988.
2. EPCHC letter dated May 25, 1988.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 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 therefore 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.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 1989

GENERAL CONDITIONS:

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 noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 1989

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 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.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 1989

GENERAL CONDITIONS:

- 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. Maximum permitted production rate for the new kiln shall be 800 square feet of gypsum board per minute at a maximum firing rate of 75 MMBtu/hr. If the production or firing rate exceeds the maximum permitted rate by 10% or more at any time, a compliance test must be conducted after notifying the Department and the Environmental Protection Commission of Hillsborough County (EPCHC) and the results of this test must be submitted to the Department within 10 working days. Any emissions in excess of those listed in Specific Conditions Nos. 2 and No. 3 shall constitute a violation of this permit. The new kiln may operate 8,400 hours per year if permitted emissions are not exceeded.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 1989

SPECIFIC CONDITIONS:

2. Particulate matter and SO₂ emissions from the new kiln shall not exceed:

	Max. Allowable Emissions	
	lbs/hr	T/yr
PM	1.07	4.50
SO ₂	27.00	113.40

The kiln shall burn natural gas or No. 2 fuel oil containing no more than 0.35% sulfur.

3. Visible emissions from the new kiln shall not exceed 5% opacity.

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

5. The permittee shall maintain a daily record of the actual board production and actual gallons of fuel oil fired in the kiln. If fuel oil is fired for a period of 7 consecutive days, a fuel analysis shall be submitted 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.

6. Construction should commence and be completed within a reasonable time based on the projections in the application.

7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and construction sites used by contractors, shall be taken by the permittee.

8. Before the construction permit expires, the kiln shall be sampled for visible emissions. Test procedures shall be in accordance with EPA Reference Method 9 as published in 40 CFR 60. The Department and the 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 shall be reported to the Department along with the test data and results. Two copies of test data shall be submitted to the EPCHC within 45 days of testing.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 1989

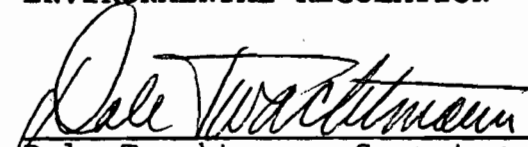
SPECIFIC CONDITIONS:

9. The applicant must demonstrate compliance with the conditions of this permit and submit a complete application for an operating permit including an operating and maintenance plan to the EPCHC at least 90 days before the expiration date of this construction permit. The permittee may continue to operate in compliance with all terms of this permit until the expiration date or issuance of an operating permit.

10. The existing kiln shall permanently cease operation prior to issuance of an operating permit.

Issued this 26 day of July, 1988

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

TO: Dale Twachtmann

for FROM: Steve Smallwood *St. Janey*

SUBJ: Approval of Construction Permit No. AC 29-147504
Gold Bond Building Products

DATE: July 26, 1988

Attached for your approval and signature is a permit prepared by Central Air Permitting for the above mentioned company to construct a replacement kiln at their facility in Tampa.

Comments were received during the public notice period.

Day 90, after which this permit will be issued by default, is July 29, 1988.

I recommend your approval and signature.

SS/aqm/jr

attachments

RECEIVED
JUL 26 1988

Office of the Secretary

Main File (6)

PM
5-23-89
Charlotte, N.C.



RECEIVED
MAY 25 1989
DER-BAQM

May 23, 1989

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

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

Re: Permit No. AC29-147504
Replacement Kiln

Dear Sir:

In accordance with Specific Condition #8 of the above permit,
this is to notify you that we plan to perform visible emissions
compliance testing on the above unit on June 5, 1989.

If you have any questions, please call.

Sincerely,

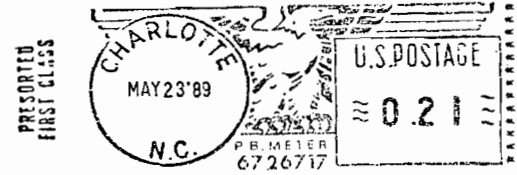
D. B. Collins
D. B. Collins
Environmental Engineer

DBC/mmm

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

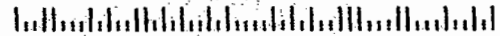
Jerry Campbell EPLHC } 5-26-89 RAN
Jim Pennington
Harry Kerns

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



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

Address Correction Requested



COMMISSION
RODNEY COLSON
PAM IORIO
RUBIN E. PADGETT
JAN KAMINIS PLATT
HAVEN POE
JAMES D. SELVEY
PICKENS C. TALLEY II



PM
26 May '88
Tampa, FL

File Copy

ROGER P. STEWART
DIRECTOR
1900 - 9th AVE
TAMPA, FLORIDA 33605

RECEIVED
TELEPHONE (813) 272-5960

MAY 31 1988

DER-BAQM

MEMORANDUM

Date 5/25/88

To Bill Thomas, BAQM

From Victor San Agustin thru Jerry Campbell *VSA* *Jc*

Subject: BAQM's Proposed Construction Permit for Gold Bond's Replacement Kiln

The staff of the Environmental Protection Commission of Hillsborough County has reviewed the proposed permit AC29-147504 and offer one comment.

We recommend the Method 9 test be conducted while burning fuel oil since this is the less clean burning fuel. Furthermore, the test results should also include an analysis of the fuel oil used during the test. Performing a test on fuel oil and submitting a fuel analysis will help demonstrate compliance with the PM and SO₂ limits in the proposed permit. We propose condition 8 be expanded to read as follows:

- "8. Before the construction permit expires, the kiln shall be tested for sulfur dioxide and visible emissions. A fuel analysis may be submitted for the required sulfur dioxide emissions test. Visible emissions testing procedures shall be conducted in accordance with 40 CFR 60, Appendix A. The Department and the Environmental Protection Commission of Hillsborough County shall be notified in writing 15 days or more prior to the compliance test. The test shall be conducted at approximately the permitted production capacity and while burning fuel oil. The actual production rate during the test shall be specified in the test report. Two copies of test data shall be submitted to the Environmental Protection Commission of Hillsborough County within 45 days of testing."

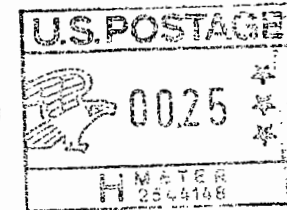
Your consideration in this regard will be appreciated. If you have any questions please call.

ch

Copied: John Reynolds
CHF/BT
Bill Thomas - SW Dist } 6.1.88

**Environmental Protection Commission
of
Hillsborough County**

1900 9th Avenue
Tampa, Florida 33605



~~CH~~
~~BT~~ } FYI
6-1-88
☺

Mr. Bill Thomas, P. E.
Bureau of Air Quality Management
Twin Towers Office Bldg.
2600 Blair Stone Road
Tallahassee, FL 32399-2400



C M P 397866569

6-9-88
Tampa, FL

Site Copy



RECEIVED

JUN 13 1988

DER-BAQM

June 9, 1988

Mr. C. H. Fancy, P. E.
Deputy Chief
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RE: DER File No. AC29-147504

Dear Sir:

Enclosed please find affidavit and copy of newspaper notice per your instructions of May 17, 1988.

Sincerely,

A handwritten signature in dark ink that reads 'R. G. Moore'.

R. G. Moore
Plant Manager

RGM:11

CC: P. Chheda
Engineering

cc: John Reynolds
B. Thomas/SWP
Gary Campbell: EPC/HC

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

RETURN RECEIPT
REQUESTED



A National Gypsum Division

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

CERTIFIED

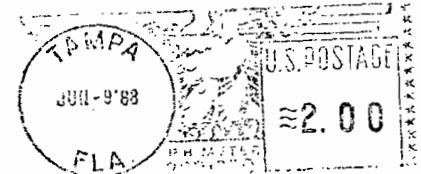
P 397 866 569

MAIL

RECEIVED

JUN 13 1988

DER-BAQM



Mr. C. H. Fancy, P. E.
Deputy Chief
Bureau of Air Quality Management
Florida Dept. of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400



RECEIVED

JUN 13 1988

DER-BAQM

THE TAMPA TRIBUNE

Published Daily
Tampa, Hillsborough County, Florida

RECEIVED

JUN 13 1988

State of Florida
County of Hillsborough } 88.

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

was published in said newspaper in the issues of

June 3, 1988

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.

Sworn to and subscribed before me, this 7th day of June, A.D. 1988.

(SEAL)

G. T. Gleason

Vicki Padilla

Notary Public, State of Florida

My Commission Expires Nov. 17, 1991

Bonded Thru Troy Fain - Insurance Inc.

State of Florida
Department of
Environmental Regulation
Notice of Intent
The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Gold Bond Building Products to construct a replacement kiln at their Tampa facility in Hillsborough County. Since the net increase in emissions of regulated air pollutants will be below significant levels, the project is exempted from new source review requirements under FAC Rule 17-2.500. The Department has determined that the proposed construction will not interfere with attainment of the ambient air quality standards. The Department is issuing this intent to issue for the reasons stated in the Technical Evaluation and Preliminary Determination.
Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has to request an administrative determination (hearing) under Section 120.57, Florida Statutes.
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 proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned to the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Park way, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.
The application is 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 Live Oak Fair Blvd.
Tampa, Florida 33610-7349
Environmental Protection Commission of
Hillsborough County
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.
4589 6/3/88

P 702 175 488

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	
Street and No.: Gold Bond Bldg. Prod.	
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: 05/19/88	
Permit: 29-147504	

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

4. Article Number: P. 702 175 488

Type of Service:
 Registered Insured
 Certified COD
 Express Mail

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee: *Russella Carter*

6. Signature - Agent: *Russella Carter*

7. Date of Delivery: MAY 25 1988

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

PORT TAMPA, FL
MAY 25 1988

PS Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268 DOMESTIC RETURN RECEIPT



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

May 17, 1988

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. R. G. Moore
Tampa 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 permit to construct the Ten Deck Kiln at your Tampa Facility.

Please submit, in writing, any comments which 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/JR/ss

Attachments

cc: W. Thomas, SW District
J. Campbell, EPCHC
P. Chheda, 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 29-147504

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 March 24, 1988, to the Department of Environmental Regulation for a permit to construct a Ten Deck Kiln 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 was needed for the proposed work.


Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, FAC, you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on permit applications. The notice must be published one time only in a section of a major local newspaper of general circulation in the county in which the project is located and within thirty (30) days from receipt of this intent. Proof of publication must be provided to the Department within seven days of publication of the notice. 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 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. Petitions must comply with the requirement of Florida Administrative Code Rules 17-103.155 and 28-5.201 (copy enclosed) and be filed with (received by) the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant must be filed within fourteen (14) days of receipt of this intent. Petitions filed by other persons must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this intent, whichever first occurs. 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, concerning the subject permit application. Petitions which are not filed in accordance with the above provisions will be dismissed.

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:

W. Thomas, SW District
J. Campbell, EPCHC
P. Chheda, Gold Bond

RULES OF THE ADMINISTRATIVE COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

- (1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners;
 - (c) All disputed issues of material fact. If there are none, the petition must so indicate;
 - (d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;
 - (e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;
 - (f) A demand for the relief to which the petitioner deems himself entitled; and
 - (g) Such other information which the petitioner contends is material.

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 May 19, 1988.

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 Jane Wise May 19, 1988
Clerk Date

State of Florida
Department of Environmental Regulation
Notice of Intent

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Gold Bond Building Products to construct a replacement kiln at their Tampa facility in Hillsborough County. Since the net increase in emissions of regulated air pollutants will be below significant levels, the project is exempted from new source review requirements under FAC Rule 17-2.500. The Department has determined that the proposed construction will not interfere with attainment of the ambient air quality standards. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

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 proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

The application is 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 Live Oak Fair Blvd.
Tampa, Florida 33610-7349

Environmental Protection Commission
of Hillsborough County
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

Construction of Replacement Kiln
Proposed State Permit No. AC 29-147504

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

May 17, 1988

I. Application

A. Gold Bond Building Products
Post Office Box 19307
Tampa, Florida 33616

B. Request

The Department received an application on March 24, 1988, for a permit to construct a replacement kiln at the applicant's facility in Tampa, Florida. The application was deemed complete on April 22, 1988.

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. The UTM coordinates of the site are: Zone 17, 347.3 km E and 3082.2 km N.

II. Project Description/Emissions

This project involves the installation of a dual fuel-fired replacement kiln for drying gypsum building boards. Capacity of the new kiln will be 800 square feet of board per minute (board line speed is 200 feet per minute) at a maximum firing rate of 75 MMBtu/hr. The kiln to be replaced has a board line maximum speed of 165 feet per minute at a maximum firing rate of 50 MMBtu/hr. The new three-zone ten deck kiln is designed to minimize NOx emissions through recirculation of combustion gases. Exhaust from the kiln will consist of fuel combustion products (from natural gas or No. 2 fuel oil) and water evaporated from the boards. No pollution control device is to be installed for the kiln. Worst-case net emissions resulting from this project and the shutdown of the old kiln are tabulated below:

Pollutants	New Kiln (TPY)	Net Increase (TPY)
Particulate Matter	4.50 (fuel oil)	1.50 (fuel oil)
SO ₂	113.45 (fuel oil)	37.44 (fuel oil)
NOx	31.51 (fuel oil)	10.40 (fuel oil)
CO	11.26 (fuel oil)	3.72 (fuel oil)
VOC	1.81 (nat. gas)	0.60 (nat. gas)

III. Rule Applicability

The construction permit application is subject to review under Chapter 403, Florida Statutes and Florida Administrative Code (FAC) Rules 17-2 and 17-4. The proposed facility will be located in an area classified as nonattainment for particulate matter and ozone, and attainment for other criteria pollutants

except SO₂ for which the location is designated as unclassifiable (FAC Rule 17-2.410(1) and (2); 17-2.420; and 17-2.430(2)). It will be a minor source since the emissions of each pollutant will be less than 250 tons per year. New source review requirements under FAC Rule 17-2 do not apply since the net emission increases after offsets are below significant levels. The RACT limits for particulate matter and visible emissions (FAC Rule 17-2.650(2)(c)12.6) shall apply to this installation.

IV. Conclusion

The proposed project will not interfere with reasonable further progress toward attainment of the ambient air quality standards and the permit application should be approved.



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 29-147504
Expiration Date: August 31, 1989
County: Hillsborough
Latitude: 27°52'00"N
Longitude: 82°33'00"W
Project: Construction of
Replacement Kiln

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:

For the construction of a replacement kiln 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 construction shall be in accordance with the attached permit application except as otherwise noted under the General Conditions and Specific Conditions set forth in this permit.

Attachment:

1. Application to Construct Air Pollution Sources, DER form 17-1.202(1) dated March 22, 1988.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 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 therefore 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.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 1989

GENERAL CONDITIONS:

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 noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 1989

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 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.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 1989

GENERAL CONDITIONS:

- 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. Maximum permitted production rate for the new kiln shall be 800 square feet of gypsum board per minute at a maximum firing rate of 75 MMBtu/hr. If the production or firing rate exceeds the maximum permitted rate by 10% or more at any time, a compliance test must be conducted after notifying the Department and the Environmental Protection Commission of Hillsborough County (EPCHC) and the results of this test must be submitted to the Department within 10 working days. Any emissions in excess of those listed in Specific Conditions Nos. 2 and No. 3 shall constitute a violation of this permit. The new kiln may operate 8,400 hours per year if permitted emissions are not exceeded.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 1989

SPECIFIC CONDITIONS:

2. Particulate matter and SO₂ emissions from the new kiln shall not exceed:

	Max. Allowable Emissions	
	lbs/hr	T/yr
PM	1.07	4.50
SO ₂	27.00	113.40

The kiln shall burn natural gas or No. 2 fuel oil containing no more than 0.35% sulfur.

3. Visible emissions from the new kiln shall not exceed 5% opacity.

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

5. The permittee shall maintain a daily record of the actual board production and actual gallons of fuel oil fired in the kiln. These records shall be maintained for 2 years and shall be available for inspection by regulatory agency personnel on request.

6. Construction should commence and be completed within a reasonable time based on the projections in the application.

7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and construction sites used by contractors, shall be taken by the permittee.

8. Before the construction permit expires, the kiln shall be sampled for visible emissions. Test procedures shall be in accordance with EPA Reference Method 9 as published in 40 CFR 60. The Department and the 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 shall be reported to the Department along with the test data and results.

PERMITTEE:
Gold Bond Building Products

Permit Number: AC 29-147504
Expiration Date: August 31, 1989

SPECIFIC CONDITIONS:

9. The applicant must demonstrate compliance with the conditions of this permit and submit a complete application for an operating permit including an operating and maintenance plan to the EPCHC at least 90 days before the expiration date of this construction permit. The permittee may continue to operate in compliance with all terms of this permit until the expiration date or issuance of an operating permit.

Issued this _____ day of _____, 19____

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Dale Twachtman, Secretary

ATTACHMENT 1

Available Upon Request.

CM: P 570 828 500

PM
10 May 1988
2354
Tampa, FL

file copy
Receipt # 117549



May 10, 1988

Mr. John Reynolds
Bureau of Air Quality Management
Twin Tower Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Reynolds:

Enclosed please find a check payable to Florida DER in the amount of \$150.00 to cover the additional cost of permit #29-147504 per our conversation of 5-6-88.

If I can be of any further assistance, please contact me at (813) 839-2111, ext. 244.

Sincerely,

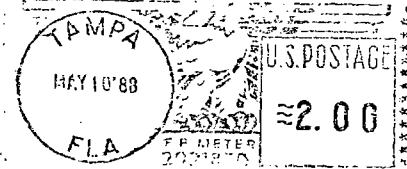
Neil Padgett
Quality Control Supvr.

NP:11
Attachment

Copies: John Reynolds
Bill Monahan, SW Dist. } 5-17-88 (M) 001031
Jerry Campbell, EPCHE }

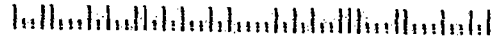
RECEIVED
DER - MAIL ROOM
1988 MAY 12 AM 11:18

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



A National Gypsum Division

Mr. John Reynolds
Bureau of Air Quality Management
Twin Tower Office Bldg.
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400



1988 MAY 15 AM 11:13

REC'D - MAIL ROOM
MAY 15 1988



2354

020 No 20916

66-798
531

Best Available Copy

TAMPA, FLORIDA MAY 10, 1988

PAY TO THE ORDER OF STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATIONS \$ 150.00

ONE HUNDRED FIFTY AND 00/100***** DOLLARS

GOLD BOND BUILDING PRODUCTS
MILL CASH ACCOUNT

NORTH CAROLINA NATIONAL BANK
ASHEVILLE, NC 28802

Paul H. Clement
AUTHORIZED SIGNATURE



NGS-4058 REV. 11-80

Enclosed please find a check payable to Florida DEK in the amount of \$150.00 to cover the additional cost of permit #29-147504 per our conversation of 5-6-88.

If I can be of any further assistance, please contact me at (813) 839-2111, ext. 244.

Sincerely,

Neil Padgett

Neil Padgett
Quality Control Supvr.

NP:11
Attachment

001031

RECEIVED
DER - MAIL ROOM
1988 MAY 12 AM 11:18

J.P.

2289

COMMISSION
RODNEY COLSON
PAM IORIO
RUBIN E. PADGETT
JAN KAMINIS PLATT
HAVEN POE
JAMES D. SELVEY
PICKENS C. TALLEY II



ROGER P. STEWART
DIRECTOR
1900 - 9th AVE
TAMPA, FLORIDA 33605
TELEPHONE (813) 272-5960

March 25, 1988

Mr. Bill Thomas, P. E.
Bureau of Air Quality Management
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400

Re: AC Applications from Gold Bond and Gulf Coast Lead

Dear Bill:

Enclosed for your staff's review are two construction permit applications from 2 major facilities. Gold Bond is A1 for PM and Gulf Coast Lead is A1 for Lead.

Also enclosed is a \$100 check from Gold Bond. The application fee and application for Gulf Coast Lead was sent in error to SWFDER, but the permitting clock has been stopped. The incompleteness letter is enclosed.

Please have the CAPS review engineer call me so we can coordinate a completeness review for Gold Bond. If I can be of further assistance, please call at SC 543-5530.

Sincerely,

Victor San Agustin
Victor San Agustin
Senior Air Permit Engineer

Enclosures

ch

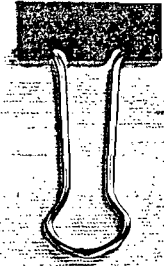
cc Bill Thomas, SWFDER

1031

1988 MAR 28 PM 10: 29
RECEIVED
DER - MAIL ROOM



A National Gypsum Division
Charlotte, NC 28211



DATE

2289

66-798
531

03/03/88

038639

AMOUNT OF CHECK

\$100.00

PAY TO THE
ORDER OF

STATE OF FLORIDA
DEPT ENVIRONMENTAL REGULATIONS
7601 HWY 301 NORTH
TAMPA FL 33610

OPERATING ACCOUNT - NORTH CAROLINA NATIONAL BANK Asheville, NC 28802



2001 Rexford Road
Charlotte, NC 28211

704-365-0950

REMITTANCE ADVICE - DETACH AND RETAIN

CHECK NO. 038639
DATE 03/03/88

VO.NO.	DOCUMENT NO.	DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
00409	TEN DECK KILN PERMIT	03/03/88	100.00	.00	100.00
				2289	
ROUTE TO: 209BBC			TOTALS	100.00	.00
NGS-2147 REV. 11-80					100.00

Sincerely,

Victor San Agustin
Senior Air Permit Engineer

Enclosures

ch

cc Bill Thomas, SWFDER

1031

RECEIVED
DER - MAIL ROOM
1988 MAR 28 PM 10:29



2001 Rexford Road
Charlotte, NC 28211

704-365-0950

REMITTANCE ADVICE- DETACH AND RETAIN

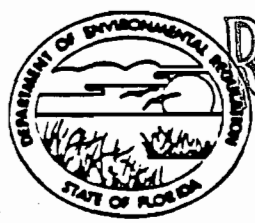
CHECK NO. **038639**
DATE **03/03/88**

VO.NO.	DOCUMENT NO.	DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT	
00409	TEN DECK KILN PERMIT	03/03/88	100.00	.00	100.00	
				12289		
ROUTE TO: 209DBC NGS-2147 REV. 11-80			TOTALS	100.00	.00	100.00

Receipt # 117535
038639
\$100.00
AC 29-147504

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
7801 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610



RECEIVED

MAR. 24 1988

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

E.P.C. OF H.C.
AIR PROGRAM

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Air Pollution New¹ Existing¹
APPLICATION TYPE: Construction Operation Modification
COMPANY NAME: Gold Bond Building Products, Div. of National Gypsum Co. COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e. Lime
Kila No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Ten Deck Kiln, Dual Fired

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, 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
Div. 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

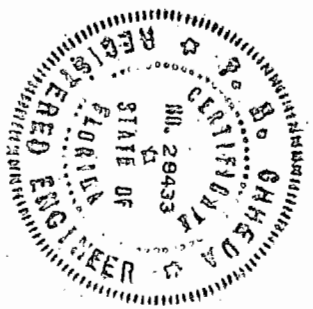
Signed: RG Moore
R. G. Moore, Tampa Plant Manager
Name and Title (Please Type)
Date: 3-22-88 Telephone No. (813) 839-2111

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*
 Padamshi H. Chheda

Name (Please Type)
 Gold Bond Building Products
 Div. of National Gypsum Company
 Company Name (Please Type)
 2001 Rexford Road, Charlotte, NC 28211
 Mailing Address (Please Type)

Florida Registration No. 28433 Date: 3/15/88 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.

We plan to install a new design "Ten Deck Kiln" with dual firing on nat. gas or #2 fuel oil. It will replace, in the same location, the existing Kiln #1. It will have two stacks that will exhaust products of combustion and water. Re-circulation of combustion gases will result in full compliance.

B. Schedule of project covered in this application (Construction Permit Application Only)
 Start of Construction 6/1/88 Completion of Construction 8/30/89

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.)

The cost of the re-circulation of combustion gases is included in the design of the kiln. Re-circulation saves energy and produces the lowest NO_x emissions of any practical abatement method. The kiln does not include any control device or system.

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

The Permit No. of the now existing Kiln #1 is A029-75467 issued March 29, 1985 and expires March 15, 1990. (Reference Copy Attached)

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 50 ;
if power plant, hrs/yr N/A ; if seasonal, describe: N/A

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? | <u>Yes</u> |
| a. If yes, has "offset" been applied? (See below)* | <u>Yes</u> |
| b. If yes, has "Lowest Achievable Emission Rate" been applied? | <u>No</u> |
| c. If yes, list non-attainment pollutants. | <u>N/A</u> |
| 2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. | <u>No</u> |
| 3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. | <u>No</u> |
| 4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? | <u>No</u> |
| 5. Do "National Emission Standards for Hazardous Air Pollutants"
(NESHAP) apply to this source? | <u>No</u> |

- H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? No
- a. If yes, for what pollutants? N/A
- 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.

* With the removal of existing Kiln No. 1, 50 MM BTU/HR firing capacity will apply as "offset."

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		
N/A				

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

1. Total Process Input Rate (lbs/hr): _____
2. Product Weight (lbs/hr): _____

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

(SEE ATTACHED)

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	

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable standard.

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
N/A				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
Natural Gas	.067 MM CF/HR	.073 MM CF/HR	75.0
#2 Fuel Oil	496 GAL/HR	536 GAL/HR	75.0

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

Fuel Analysis:

Percent Sulfur: #2 Oil = 0.35 Max. Percent Ash: 0.0%

Density: #2 Oil = 7.1 lbs./gal. lbs/gal Typical Percent Nitrogen: #2 Oil = .015%

Heat Capacity: Nat. Gas = 1027 BTU/CF ~~XXXXXX~~ #2 Fuel Oil = 140,000 BTU/gal

Other Fuel Contaminants (which may cause air pollution): N/A

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

Annual Average N/A Maximum

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

N/A

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

Stack Height: (SEE ATTACHED) ft. Stack Diameter: _____ ft.
 Gas Flow Rate: _____ ACFM _____ DSCFM Gas Exit Temperature: _____ °F.
 Water Vapor Content: _____ % 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) 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: N/A

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 (SEE 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: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:

¹Explain method of determining efficiency.

²Energy 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
- 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:
- (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:

¹Applicant 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 _____ () SO₂* _____ 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(a) 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 III, ITEM B: Process Rate,

INPUT: Max. Board Line Speed - 200 Ft./Min. x 4 Ft. Wide =
 800 Sq. Ft./Min. x Wet Board Weight of
 2.485 Lbs./Sq. Ft. = 1988 Lbs./Min. x 60/2000 =
 59.64 T/Hr. = 60 T/Hr.

OUTPUT: 1988 Lbs./Min. Less 640 Lbs./Min. H₂O Removed =
 1348 Lbs./Min. Dry Board x 60/2000 =
 40.44 T/Hr. = 40T/Hr.

SECTION III, ITEM C: Airborne Contaminants Emitted

Based on the following:

1. Maximum Firing Rate of 75 MM BTU/HR
2. AP-42 Emission Factors
3. A 30% Reduction in NO_x Emissions Based on Re-Circulation of Combustion Gases
4. Operating 24 Hrs./Day, 7 Days/Wk., 50 Weeks/Year

A. Emissions, Firing on Nat. Gas with 1027 BTU/CF

$$\frac{75 \text{ MM BTU/HR}}{1027 \text{ BTU/CF}} = \frac{73.03 \text{ MCF/Hr.} \times 8400 \text{ Hrs./Year}}{1000} = 613 \text{ MM CF/Yr.}$$

AP-42 Nat. Gas at .073 MM CF/Hr.:

Part.	=	4.0 lbs./MMCF	x	.073 MMCF/Hr.	=	.29 lbs./hour
SO _x	=	.6	"	x	"	= .04 lbs./hour
NO _x	=	140	"	x	"	= 10.22 lbs./hour
					x .7	= 7.15 lbs./hr
CO	=	35	"	x	"	= 2.55 lbs./hour
VOC	=	5.8	"	x	"	= .42 lbs./hours

Tons/Year:

Part. = 4.0 lbs./MMCF x 613 MM CF/Year/2000 = 1.23 Tons/Yr.

SO _x	=	.6	"	x	"	= .18	"
NO _x	=	140	"	x	"	= 42.9	"
					x .7	= 30.0	T/Yr
CO	=	35	"	x	"	= 10.7	"
VOC	=	5.8	"	x	"	= 1.8	"

B. Emissions Firing on #2 Fuel Oil with Sulfur not to exceed 0.35% and 140,000 BTU's/GAL:

$$\frac{75 \text{ MM BTU's/Hr.}}{140,000 \text{ BTU's/GAL}} = \frac{536 \text{ GPH} \times 8400 \text{ Hrs./Yr.}}{1000} = 4,502 \text{ MGAL/Yr.}$$

AP-42 #2 Fuel Oil at .536 MGPH:

Part. = 2 lbs./MGAL x .536 MGPH = 1.07 lbs./hr.

SO_x = 144S lbs./MGAL = 50.4 lbs. x .536 MGPH = 27.0 lbs/hr

NO_x = 20 lbs./MGAL x .536 MGPH = 10.7 lbs./hr. x .7 = 7.5 lbs./hr

CO = 5 lbs./MGAL x .536 MGPH = 2.68 lbs./hr.

VOC = .06 lbs./MGAL x .536 MGPH = .03 lbs./hr.

TONS/YR:

PART. = 2 lbs./MGAL x 4,502 MGAL/Yr./2000 = 4.50 tons/year

SO_x = 144S = 50.4 lbs. x 4,502 MGAL/Yr./2000 = 113.45 tons/year

NO_x = 20 lbs./MGAL x 4,502 MGAL/2000 x .7 = 31.51 tons/yr.

CO = 5 lbs./MGAL x 4,502 MGAL/2000 = 11.26 tons/yr.

VOC = .06 lbs./MGAL x 4,502 MGAL/2000 = 0.14 tons/yr.

C. TABULATED EMISSIONS:

	NATURAL GAS		NO. 2 FUEL OIL	
	LBS./HR.	TONS/YEAR	LBS./HR.	TONS/YEAR
PART.	0.29	1.23	1.07	4.50
SO _x	0.04	0.18	27.00	113.45
NO _x	7.15	30.00	7.50	31.51
CO	2.55	10.70	2.68	11.26
VOC	0.42	1.81	.03	0.14

D. WITH THE REMOVAL OF THE EXISTING #1 KILN AT 50 MM BTU/HR THE RESULTING ADDITIONAL EMISSIONS

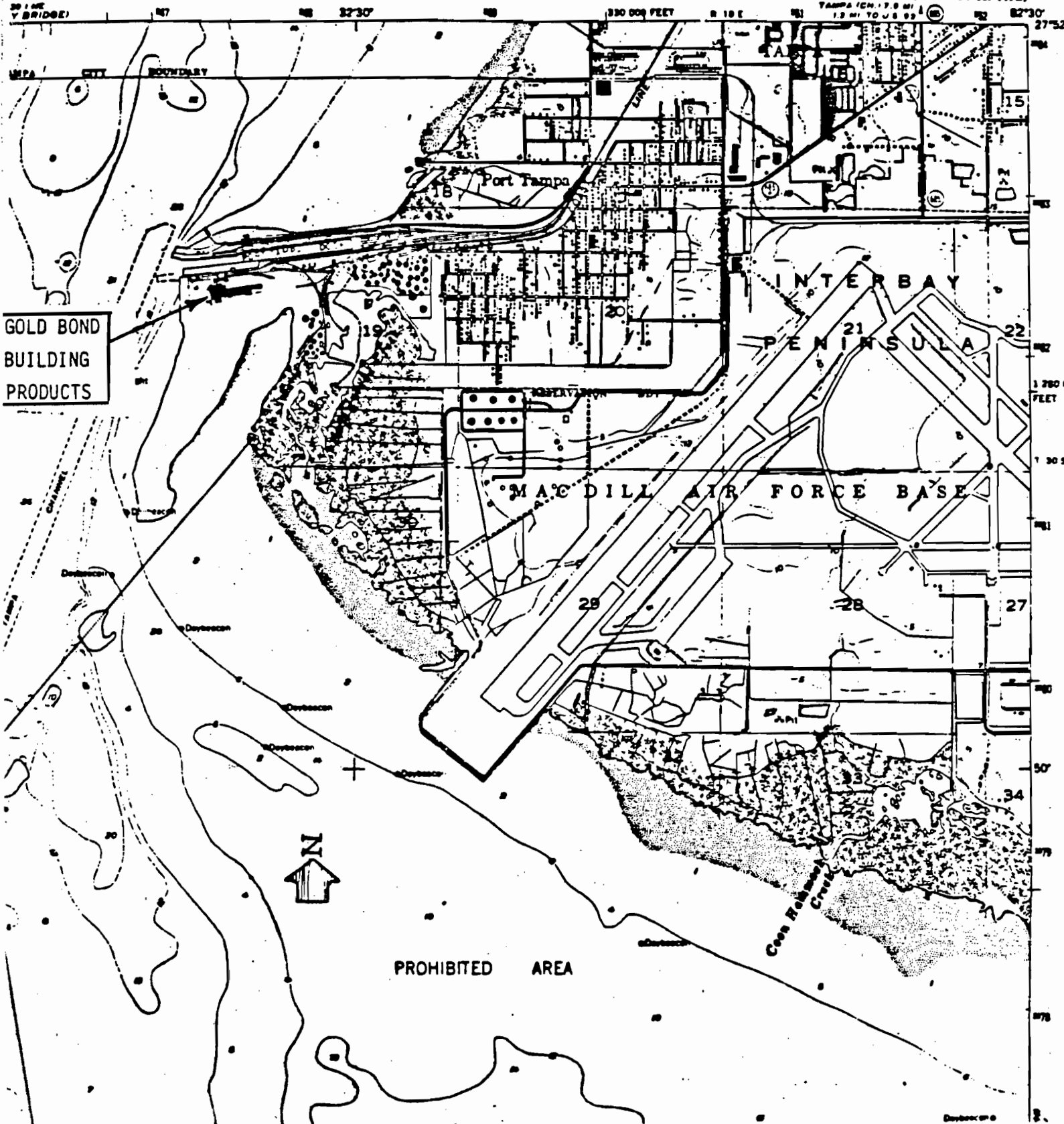
	TONS/YEAR	
	NATURAL GAS	NO. 2 FUEL OIL
PART.	0.40	1.50
SO _x	0.06	37.44
NO _x	9.90	10.40
CO	3.53	3.72
VOC	0.60	0.05

SECTION III, ITEM "H" - STACK GEOMETRY

		<u>STACK NO. 1</u>	<u>STACK NO. 2</u>
Height	Ft.	35.0	35.0
Diameter	Ft.	2.17	3.33
ACFM		12,000	28,000
DSCFM		2,867	11,467
Exit Temp	F	400	200
H ₂ O Vapor	% Vol.	63	48
Velocity	FPS	50.5	53.5

SECTION V: SUPPLEMENTAL REQUIREMENTS

1. Process Rate: Max
Input = 60 T/HR Wet Board
 20 T/HR H₂O Removed
Output = 40 T/HR Dry Board
2. Basis of Emission Estimate:
AP-42, Fourth Edition, Sept. 1985
3. Basis of Potential Discharge:
AP-42, Fourth Edition, Sept. 1985
4. Design of Control System:
Re-circulation of Combustion Gases is Included in the
Kiln Design.
5. Control Device Efficiencies:
(N/A)
6. Flow Chart: (See Attached Dwg. 20SK010688)
7. Topographical Location: (See Attached 20SK010488)
8. Plot Plan: (See Attached Dwg. 20SK010588)
9. Application Fee:
Attached:
 1. Check for \$355.00 to Environmental
Protection Commission of Hillsborough
County.
 2. Check for \$100.00 to State of Florida
Dept. of Environmental Regulations.

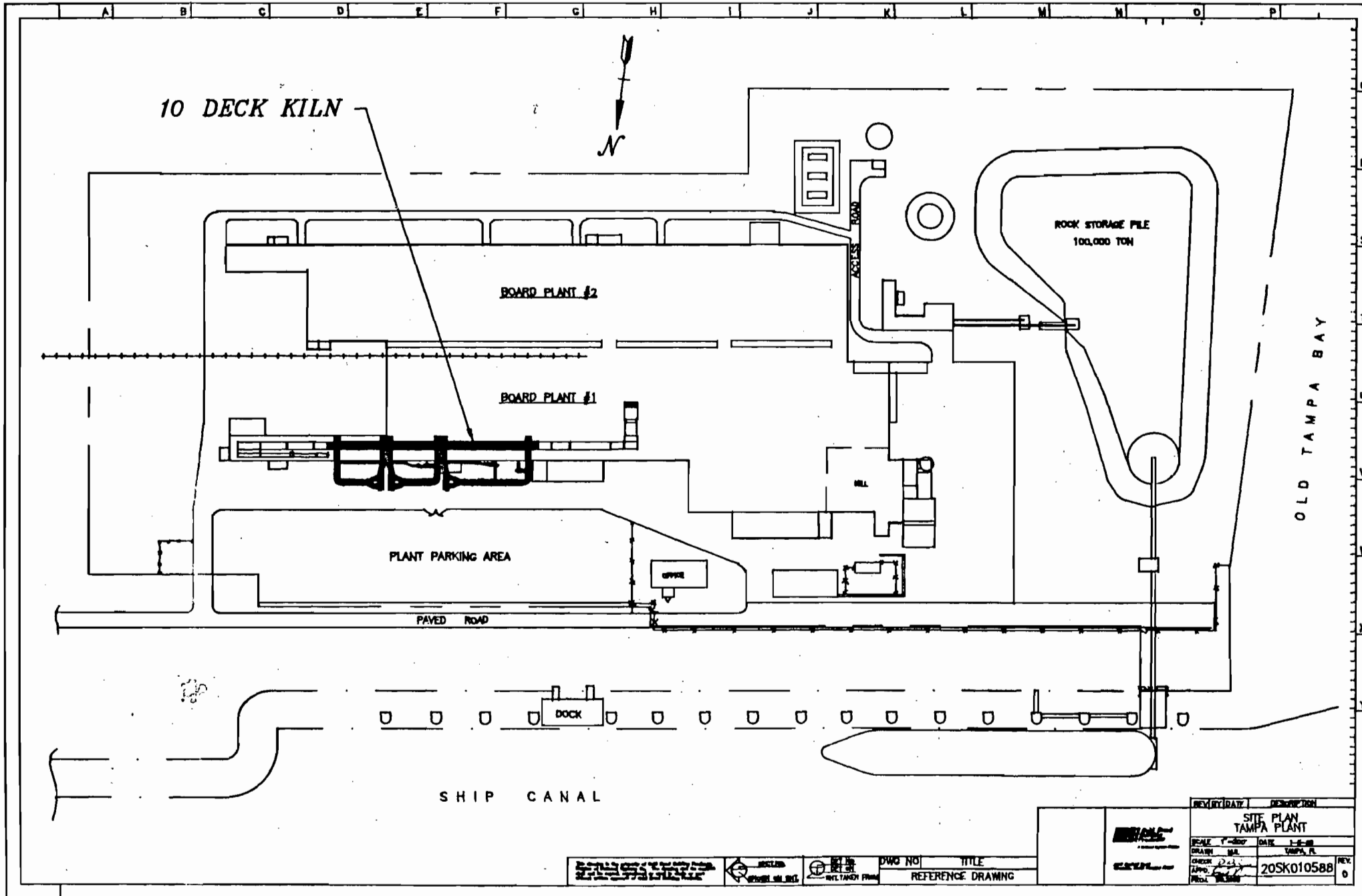


PROHIBITED AREA

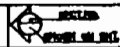
Gold Bond Building Products
A Division of Owens Corning
2001 National Road
Channahon, Illinois 61018

REV	BY	DATE	DESCRIPTION
			TAMPA PLANT TOPOGRAPHICAL LOCATION
		SCALE None	DATE
		DRAWN ASL	Tampa, FL
		CHECK DBC	
		APPD. <i>SK</i>	205K-010488
			REV. 0

Best Available Copy



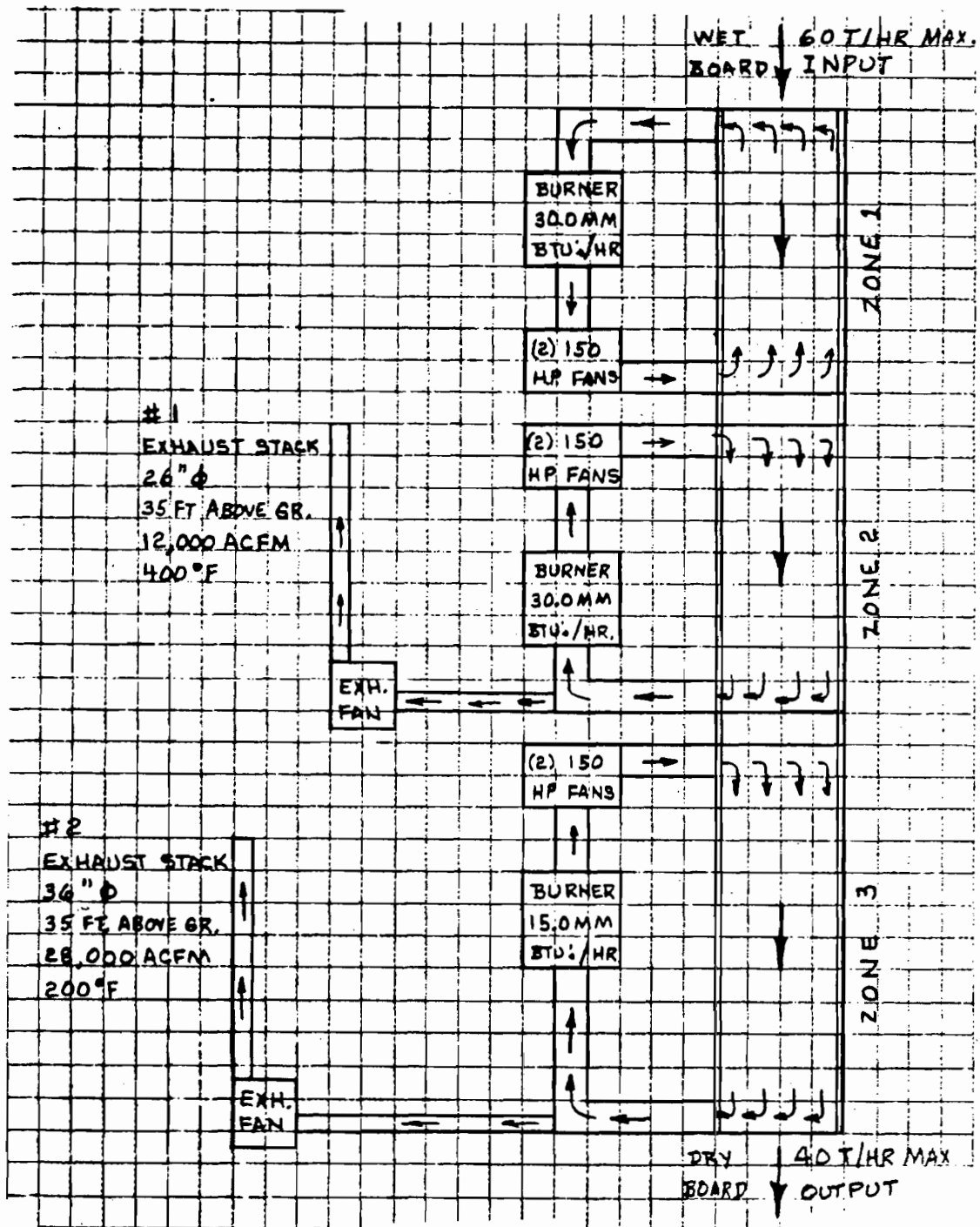
FOR ALL INFORMATION CONCERNING THIS DRAWING CONTACT THE PROJECT ENGINEER AT THE ADDRESS LISTED BELOW.



DWG NO. TITLE
REFERENCE DRAWING

REV. NO.	DATE	DESCRIPTION

SCALE 1"=500'		DATE 1-16-88	
DRAWN M.A.		TAMPA, FL	
CHECKED D.J.		20SK010588	
APPROVED M.A.		REV. 0	



REV	BY	DATE	DESCRIPTION
TEN DECK KILN FLOW CHART			
SCALE		DATE	
DRAWN		TAMPA	
CHECK		20SK010688	
APPD. EJR			
PROJ. W.O. 2066		REV. 0	

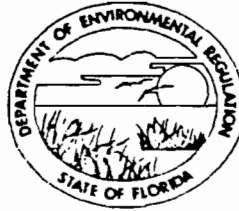


2001 Reelford Road
Charlotte, North Carolina 28211

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

EXISTING PERMIT

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No.: A029-75467
County: Hillsborough
Expiration Date: 3-15-90
Project: Kiln Dryer #1

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 & 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 the operation of 50 MMBTU/hr. Kiln Dryer #1 in board plant #1. The unit is fired on natural gas with number 2 fuel oil with .35% sulfur by weight as a backup fuel. The kiln has one stack for each of the 3 zones which dehydrates the gypsum wallboard at a rate of 820 pounds of water per 1000 feet of board. The board travels through the kiln at an average rate of 165 feet per minute. This source is uncontrolled.

Location: 6110 Commerce Street, Tampa, Hillsborough County

UTM: 17-347.3 E 3082.7 N NEDS NO: 0028 Point ID: 47

Replaces Permit No.: N/A

PERMITTEE:
Gold Bond Building
Products

Permit/Certification No.: A029-75467
Project: Kiln Dryer #1

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 the 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 403.712(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 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 therefore 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 any order from the department.

PERMITTEE:
Gold Bond Building
Products

Permit/Certification No.: A029-75467
Project: Kiln Dryer #1

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 maybe required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purposes 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 non-compliance, 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.

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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 Section 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)
- () Certification of Compliance with State Water Quality Standards (Section 401. PL 92-500)
- () 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.

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14. (con't)

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. Test the kiln dryer stack for visible emissions at intervals of twelve months from September 9, 1984. The EPA Method No. 9 test interval on this source shall be thirty (30) minutes. Two copies of the test data shall be submitted to the Air Engineering Section of the Hillsborough County Environmental Protection Commission within 45 days of testing.

2. Testing of emissions must be accomplished within +10% of the maximum drying rate of 165 feet of board/minute. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Section 403.161(1)(c), Florida Statutes).

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SPECIFIC CONDITIONS (con't):

3. The Hillsborough County Environmental Protection Commission shall be notified in writing 15 days in advance of any compliance test to be conducted on this source.

4. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C.

- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

Two copies of all reports shall be submitted to the Air Engineering Section of the Hillsborough County Environmental Protection Commission.

5. Pursuant to Subsection 17-2.650(2)(c)11.b., F.A.C. the maximum allowable emissions for this drying kiln based on a design flow of 24,000 dscfm shall not exceed:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/yr.</u>	<u>Emission Limitation</u>
Particulate Matter	6.17	23.1	0.03 grains/dscf
Visible Emissions			None (visible emissions less than or equal to 5% opacity)

6. Operation and Maintenance Plan for Particulate Control (Section 17-2.650(2), F.A.C.)

A. Process Parameters:

- 1. Source Designator: Kiln Dryer #1
- 2. Drying Kiln Manufacturer: Propriety
- 3. Model Name and Number: Custom Made
- 4. Design Flow Rate: 24,000 dscfm
- 5. Gas temperatures by zone: Zone #1 (550^oF),
Zone #2 (560^oF), Zone #3 (350^oF)
- 6. Stack Height above ground: 33 ft.
- 7. Exit Diameter: 2.75'
- 8. Exit Velocity: 67.4 fps
- 9. % Moisture in Board Driven Off: 820 # H₂O/1000' of board
- 10. Maximum Permitted Board Handling Rate:
165 fpm for 1 1/2" tapered edge
140 fpm for 5/8" tapered edge

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SPECIFIC CONDITIONS (con't):

11. Operation Schedule: 24 hrs./day; 7 days/wk.; 52 wks./yr.
12. Fuels: Natural gas at 0.045 MMcf/hr.;
#2 Fuel oil (stand by) 361 gal./hr. with 0.35% sulfur,
0% ash, 0.015% nitrogen

B. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Daily

1. Observe stack visual emission level.

Weekly

1. Gas temperature, inlet and outlet (if applicable).
2. Inspect for proper operation (audible leaks, etc.).
3. Note any unusual occurrence in the process.
4. Observe all indicators on control panel.
5. Lubrication.
6. Pipe conditions (inlet and outlet).

Monthly

1. Check all conveyor mechanism moving parts.
2. Inspect conveyor for corrosion and material build-up.

Quarterly

1. Inspect paint.
2. Check belt conveyor flighting.

Annually

1. Check all bolts.
2. Check welds.

C. Records:

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or Hillsborough County Environmental Protection Commission upon request (Subsection 17-2.650(2)(g)5., F.A.C.).

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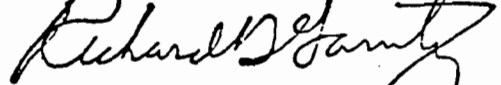
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SPECIFIC CONDITIONS (Con't):

7. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Section 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.
8. If sulfur content of #2 fuel oil burned in any of this unit shall not exceed 0.35 percent by weight.
9. If #2 fuel is used in any of this unit for a period of 7 consecutive days, then a compliance test consisting of a 30 minute visible emission test shall be scheduled immediately. If the use of fuel oil continues, then testing under these circumstances shall become an annual requirement.
10. If a compliance test is conducted while firing fuel oil, then a fuel analysis shall be submitted indicating the heat content and weight percent sulfur.

Issued this 29th day of March
1985.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard D. Garrity, Ph.D.
District Manager