



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

AUG 20 1990

4APT-AE

RECEIVED

AUG 29 1990

DER-BAQM

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

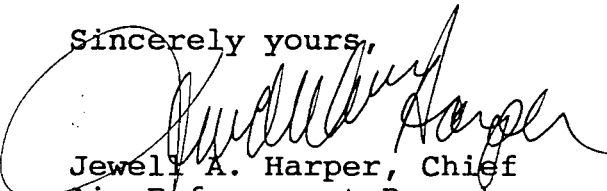
RE: Florida Mining and Materials (PSD-FL-124A)

Dear Mr. Fancy:

This is to acknowledge receipt of your final determination and permit for the modification to the above referenced facility, dated July 25, 1990. As requested we have reviewed the package and have no adverse comments.

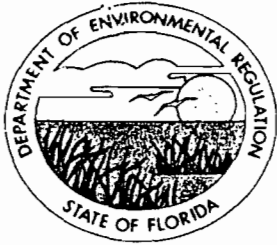
Thank you for the opportunity to review this package. If you have any questions on this issue, please contact Mr. Gregg Worley of my staff at (404) 347-2904.

Sincerely yours,

  
Jewel A. Harper, Chief  
Air Enforcement Branch  
Air, Pesticides, and Toxics  
Management Division

cc: C. M. Coleman Jr., V.P.  
Florida Mining and Materials  
P.O. Box 6  
Brooksville, Florida 34605-0006

File Copy



# 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

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
NOTICE OF PERMIT

Mr. Henry E. Andre, Vice-President  
Florida Mining and Materials  
Post Office Box 6  
Brooksville, Florida 34605-0006

July 25, 1990

Enclosed is construction permit No. AC 27-173474 to modify the operation of Kiln No. 2 at your facility near Brooksville, Hernando 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

*Benny D. Anthony*  
fr — C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

Copy furnished to:

- B. Thomas, SW District
- J. Tessitore, P.E.
- G. Worley, EPA

Reading file } 7/25/90 JRN  
John Reynolds

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of buisness on 7-25-90.

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

Kym Jaber  
Clerk

7-25-90  
Date

Final Determination

Florida Mining and Materials  
Brooksville, Hernando County, Florida

Modification of Kiln No. 2 Operation  
Permit No. AC 27-173474

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

July 20, 1990

## Final Determination

The construction permit application has been reviewed by the Department. Public notice of the Department's Intent to Issue was published in the Sun-Journal on June 22, 1990. The Technical Evaluation and Preliminary Determination were available for public inspection at the DER's Southwest District office in Tampa and the DER's Bureau of Air Regulation office in Tallahassee.

Comments requesting minor changes were received from the applicant prior to the public notice period.

The substantive changes requested are addressed below:

- A. Revise hourly production limit by averaging annual production based on 8200 hours/yr.

According to EPA's June 13, 1989 memorandum on limiting potential to emit, the averaging time for limits on production may not exceed the annual limit rolled on a monthly basis. Therefore, Specific Condition No. 3 has been revised to allow a rolling 30-day average limit on production rate.

- B. Add language allowing flolite oil to be used during periods when coal is "excessively wet."

Instead of "excessively wet," the following language has been added to Specific Condition No. 5: "or when coal moisture content exceeds the normal range."

- C. Increase proposed NO<sub>x</sub> limit from 162.3 lbs/hr to 250 lbs/hr.

EPA's policy on netting calculations will not allow an increase in the proposed limit. To obtain a higher limit, the application would have to be refiled under the Prevention of Significant Deterioration (PSD) rule.

The final action of the department will be 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:  
Moore McCormack Resources,  
Inc., dba  
Florida Mining and Materials  
P. O. Box 6  
Brooksville, Florida  
34605-0006

Permit Number: AC 27-173474  
Expiration Date: December 31, 1991  
County: Hernando  
Latitude/Longitude: 28°38'34"N  
82°28'25"W  
Project: Modification of Kiln  
No. 2 Operation

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of the No. 2 kiln to burn Flolite oil, increase operating rates, and operate kiln without operating the raw mill. The facility is located in Brooksville, Hernando County, Florida. The UTM coordinates are Zone 17, 356.0 km East and 3169.9 km North.

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

Attachments are listed below:

1. Florida Mining & Materials (FM&M) application received on December 4, 1989.
2. EPA's letter dated January 10, 1990.
3. EPA's letter dated May 9, 1990.
4. FM&M's letter dated May 21, 1990.

PERMITTEE:

Florida Mining and Materials

Permit Number: AC 27-173474

Expiration Date: December 31, 1991

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:

Florida Mining and Materials

Permit Number: AC 27-173474

Expiration Date: December 31, 1991

GENERAL CONDITIONS:

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.



PERMITTEE: Florida Mining and Materials      Permit Number: AC 27-173474  
Expiration Date: December 31, 1991

**GENERAL CONDITIONS:**

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes compliance with New Source Performance Standards (NSPS).

14. The permittee shall comply with the following:

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

PERMITTEE:

Permit Number: AC 27-173474

Florida Mining and Materials

Expiration Date: December 31, 1991

**GENERAL CONDITIONS:**

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

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

**SPECIFIC CONDITIONS:**

1. The specific conditions of this permit supercede those of the current permit AC 27-138850.

2. The annual hours of operation of kiln No. 2 shall not exceed 8200.

3. The No. 2 kiln feed rate shall not exceed 130 tons per hour (wet basis), yielding a maximum clinker production rate of 79.6 tons per hour (dry basis), averaged on a rolling 30-day production period.

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-173474  
Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

4. The No. 2 kiln fuel input rate shall not exceed 300 MMBTU per hour based on firing 24,219 lbs/hr coal with a heating value of 12,387 BTU/lb. The sulfur content of the coal shall not exceed 1.0 percent by weight using ASTM-D-3177-84. Coals with heating values lower than 12,387 BTU per pound shall be fired only if the sulfur content to heat value ratio of the coal does not exceed 0.83 pounds of sulfur per MMBTU of heat input.

5. During startup periods that are to exceed no more than 250 hours per year, or periods when raw materials feed is stopped, or when coal moisture content exceeds the normal range, fuel shall consist of up to 2069 gallons/hr of Flolite re-refined oil blend containing no more than 1 percent sulfur by weight, or coal containing no more than 1.0 percent sulfur by weight. At all times the Flolite oil shall contain no higher concentration of metals or toxics than listed below:

Cadmium - 0.3 ppm, Lead - 5.0 ppm, Arsenic - 1.0 ppm

6. Emissions from the No. 2 kiln shall not exceed the following:

Pollutant	Maximum Allowable Emissions	
	lbs/hr	tons per year
PM	13.5	55.3
SO <sub>2</sub>	11.5	47.0
NO <sub>x</sub>	162.3	655.3
VOC	7.4	31.2
CO	64.0	262.2
VE	10% opacity	

7. Compliance shall be demonstrated in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60 Appendix A (1988) using the following methods:

EPA Method 5 for PM  
EPA Method 6 for SO<sub>2</sub>  
EPA Method 7 for NO<sub>x</sub>  
EPA Method 9 for VE  
EPA Method 10 for CO  
EPA Method 25A for VOC

PERMITTEE: Florida Mining and Materials      Permit Number: AC 27-173474  
Expiration Date: December 31, 1991

**SPECIFIC CONDITIONS:**

8. The kiln feed rate and clinker production rate shall be monitored and recorded daily in accordance with 40 CFR 60.63. The coal feed rate to the kiln and the average coal sulfur content and heating value (BTU/lb) of each coal shipment shall be determined and recorded. If coal of sulfur content exceeding 1.0 percent by weight is fired in the kiln (due to variability in the sulfur content of coal within a shipment) samples will be taken of coal entering the kiln at a minimum frequency of once per hour and analyzed for sulfur content. The average sulfur content of samples taken within each 3-hour period shall not exceed 1.0 percent by weight.

9. Emissions of NO<sub>x</sub> will be minimized through the use of low excess air firing. A continuous kiln exhaust gas oxygen monitor/recorder shall be installed, calibrated, operated and maintained in proper working order.

10. The applicant shall apply reasonable work practices to minimize fugitive PM emissions, including the following:

- a. All permanent haul roads shall be paved.
- b. Temporary haul roads shall be watered or treated with chemical dust suppressants at regular intervals.
- c. Dry raw materials (moisture content  $\leq$  14 %) shall be stored below natural grade in silos or enclosed structures.
- d. Coal stored at or above natural grade shall be compacted, turned and/or watered as necessary to maintain a minimum 8 percent moisture content in the surface layer and aligned with the predominant wind direction to minimize wind erosion.
- e. Abandoned haul roads and other disturbed areas shall be revegetated within 60 days of the date active service ends.
- f. All cement products shall be transferred to transport trucks with a sealed pneumatic conveying system which is either a closed system or exhausted through a bag filter.

11. The applicant shall comply with all of the applicable provisions and requirements of F.A.C. Chapters 17-2, 17-4, and 40 CFR 60 Subpart F.

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-173474  
Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

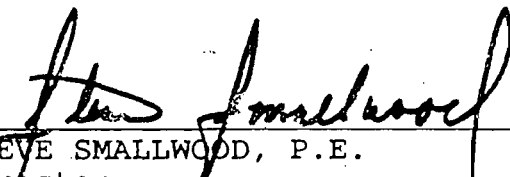
12. The Department's Southwest District office shall be notified at least 15 days prior to compliance testing. Test reports shall be submitted to the Department's Southwest District office within 30 days of compliance test completion.

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

14. An application for an operation permit must be submitted to the Department's Southwest District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued this 20<sup>th</sup> day  
of July, 1990

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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

Attachments Available Upon Request



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

RECEIVED

MAY 11 1990

DER-BAQM

MAY 9 1990

4APT/AE

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

RE: Florida Mining and Materials (PSD-FL-124A)

Dear Mr. Fancy:

This is to acknowledge receipt of your preliminary determination and draft permits for the proposed modification to the above referenced facility, dated April 25, 1990. We have reviewed the package as requested and have the following comments.

Our comments concerning the netting calculation performed by the applicant, as expressed in our letter to you dated January 10, 1990, have been satisfactorily addressed. The change in emissions has been correctly determined from old actual emissions to new allowable emissions. Therefore, we concur with the Bureau of Air Regulation's conclusion that the proposed modification would be a minor modification and not subject to the best available control technology requirements (BACT) of prevention of significant deterioration (PSD) review.

Thank you for the opportunity to review this package and for addressing our previous comments. If you have any questions or comments on this issue, please contact Mr. Gregg Worley of my staff at (404) 347-2864.

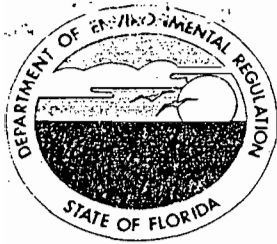
Sincerely yours,

*Jewell A. Harper, for*

Jewell A. Harper, Chief  
Air Enforcement Branch  
Air, Pesticides, and Toxics  
Management Division

cc: C.M. Coleman Jr., V.P.  
Florida Mining and Materials  
P.O. Box 6  
Brooksville, Florida 34605-0006

*O. Reynolds*  
*B. Thomas, SWD*  
*CHP/BA*



# 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

April 25, 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Henry E. Andre, Vice-President  
Florida Mining and Materials  
Post Office Box 6  
Brooksville, Florida 34605-0006

Dear Mr. Andre:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for Florida Mining and Materials to modify kiln No. 2 at the facility near Brooksville, Florida.

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

Sincerely,

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

CHF/JR/plm

Attachments

c: B. Thomas, SW Dist.  
J. Tessitore, P.E.  
G. Worley, EPA



BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permit by:

Florida Mining and Materials  
Post Office Box 6  
Brooksville, Florida 34605-0006

DER File No. AC 27-173474

---

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, Florida Mining and Materials, applied on December 4, 1989, to the Department of Environmental Regulation for a permit to modify kiln No. 2 at their Brooksville cement plant. The modification involves increasing operation rate by approximately 8 percent and operating hours by about 6 percent. The modification also provides for operation of the No. 2 kiln without operating the raw mill and the use of re-refined oil for kiln startup. The applicant's facility is located off U.S. Highway 98 northwest of Brooksville, Hernando County, Florida.

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

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department, at the address specified within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

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

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

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

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

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application(s) have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such

person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



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

Copies furnished to:

B. Thomas, SW Dist.  
J. Tessitore, P.E.  
G. Worley, EPA

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 4-26-90.

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

Kymberly E. Baker  
Clerk

4-26-90  
Date

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

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Florida Mining and Materials, Post Office Box 6, Brooksville, Florida 34605-0006, to modify kiln No. 2 at their Brooksville cement plant. The modification involves increasing operation rate by approximately 8 percent and operating hours by about 6 percent. The modification also provides for operation of the No. 2 kiln without operating the raw mill and the use of re-refined oil for kiln startup. This permit does not involve processing or combustion of hazardous wastes or toxic materials. A determination of Best Available Control Technology (BACT) was not required. The applicant's facility is located off U.S. Highway 98 northwest of Brooksville, Hernando County, Florida. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

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

The Petition shall contain the following information:

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

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

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

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

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

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

Any person may send written comments on the proposed action to Mr. C. H. Fancy 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

Florida Mining and Materials  
Brooksville, Hernando County, Florida

Modification to Kiln No. 2  
Permit No. AC 27-173474

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

April 25, 1990

I. Application

A. Applicant

Florida Mining and Materials  
Post Office Box 6  
Brooksville, Florida 34605-0006

B. Request

The Department received a complete application on December 4, 1989, which was amended on March 26, 1990, for a permit to modify kiln No. 2 at the applicant's cement plant in Brooksville, Florida.

C. Classification/Location

The applicant's cement manufacturing facility (SIC Code 3241) is located off U.S. Highway 98 northwest of Brooksville, Florida, with latitude of 28°38'34" N and longitude of 82°28'25"W. The UTM coordinates of the site are: Zone 17, 356.0 km E and 3169.9 km N.

II. Project Description/Emissions

The applicant proposes to modify the operation of kiln No. 2 as follows:

- a) Increase process input rate from 120 TPH to 130 TPH.
- b) Increase coal consumption rate from 10.5 TPH to 12 TPH.
- c) Increase hours of operation from 7,896 hr/yr to 8,200 hr/yr.
- d) Operate kiln without raw mill.
- e) Use Flolite re-refined oil for start up of kiln (250 hr/yr).

It is also proposed that allowable emission limits for carbon monoxide (CO) and volatile organic compounds (VOC) be increased to reflect actual operating conditions for the No. 2 kiln. The existing permit does not allow for the fact that CO is emitted not only from combustion of coal but also from calcining of calcium carbonate in the kiln feed. Therefore, the applicant requests revision of the existing emission limit to include the CO generated by the process as well as the amount resulting from the increased coal combustion rate.

The current permit prevents kiln operation when the raw mill is down in order to maximize the removal of sulfur dioxide (SO<sub>2</sub>) by additional contact with raw materials in the raw mill. This existing permit condition relates back to the original permit limit of 3 pounds of SO<sub>2</sub> per hour which was increased to 12 pounds per hour by a permit amendment in November 1988. Test data show that it is no longer necessary that the raw mill be operated at all times when the kiln is running.



Emission changes resulting from the proposed permit are summarized below:

	Current Allowable		Current Actual(1)		New Allowable(2)		Net Increase	Significant Increase
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	T/yr	T/yr
PM	21.6	85.3	7.7	30.4	13.5	55.3	24.9	25
SO <sub>2</sub>	12.0	47.4	1.8	7.1	11.5	47.0	39.9	40
NO <sub>x</sub>	250.0	987.0	158.4	625.4	162.3	665.3	39.9	40
VOC	2.7	10.7	5.4	21.3	7.4	31.2	9.9	40
CO	8.9	35.1	41.1	162.3	64.0	262.2	99.9	100

(1) Based on the highest two 1989 stack test results

(2) New allowable (8200 hrs) vs. current actual 7896 (hrs)

It is presumed that the applicant will accept reductions in allowable emission limits that are necessary to avoid PSD review for particulate matter (PM), SO<sub>2</sub> and NO<sub>x</sub>. Any emission increase above these levels would require another evaluation including a Best Available Control Technology (BACT) determination, additional \$4,000 application fee, and perhaps additional air modeling data (this evaluation does not address the air modeling data submitted with this application).

There is no objection to the request to use Flolite re-refined oil. This fuel has already been approved for use in kiln No. 1 at this facility.

### III. Rule Applicability

The construction permit application is subject to review under Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. The facility is located in an area classified as attainment for each of the regulated air pollutants. Although the kiln is a major source, the proposed increases in emissions are less than the significant levels listed in Table 500-2 and therefore the proposed modification is not subject to the new source review requirements of F.A.C. Rule 17-2.500. Applicable rules are F.A.C. Rule 17-2.600(7)(b) and F.A.C. Rule 17-2.660, Standards of Performance for New Stationary Sources, Section 60.60, Subpart F, Portland Cement Plants.

### IV. Conclusion

Based on the information provided by Florida Mining and Materials, the Department has reasonable assurance that the modification to kiln No.2, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.

*James K. Pennington*  
 No. 345 36  
 4/26/90



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**

Florida Mining and Materials  
P. O. Box 6  
Brooksville, Florida  
34605-0006

Permit Number: AC 27-173474

Expiration Date: December 31 1991

County: Hernando

Latitude/Longitude: 28°38'34"N  
82°28'25"W

Project: Modification to Kiln  
No. 2

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of the No. 2 kiln to burn Flolite oil, increase operating rates, and operate kiln without operating the raw mill. The facility is located in Brooksville, Hernando County, Florida. The UTM coordinates are Zone 17, 356.0 km East and 3169.9 km North.

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

Attachments are listed below:

1. Florida Mining & Materials (FM&M) application received on December 4, 1989.
2. EPA's letter dated January 10, 1990.

PERMITTEE: Permit Number: AC 27-173474  
Florida Mining and Materials Expiration Date: December 31, 1991

GENERAL CONDITIONS:

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

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:

Florida Mining and Materials

Permit Number: AC 27-173474

Expiration Date: December 31, 1991

GENERAL CONDITIONS:

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-173474  
Expiration Date: December 31, 1991

GENERAL CONDITIONS:

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes compliance with New Source Performance Standards (NSPS).

14. The permittee shall comply with the following:

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

PERMITTEE:

Florida Mining and Materials

Permit Number: AC 27-173474

Expiration Date: December 31, 1991

GENERAL CONDITIONS:

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The specific conditions of this permit supercede those of the current permit AC 27-138850.

2. The annual hours of operation of kiln No. 2 shall not exceed 8200.

3. The No. 2 kiln feed rate shall not exceed 130 tons per hour (wet basis), yielding a maximum clinker production rate of 79.6 tons per hour (dry basis).

4. The No. 2 kiln fuel input rate shall not exceed 300 MMBTU per hour based on firing 24,219 lbs/hr coal with a heating value of 12,387 BTU/lb. The sulfur content of the coal shall not exceed 1.0 percent by weight using ASTM-D-3177-84. Coals with heating

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Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

values lower than 12,387 BTU per pound shall be fired only if the sulfur content to heat value ratio of the coal does not exceed 0.83 pounds of sulfur per MMBTU of heat input.

5. During startup periods that are to exceed no more than 250 hours per year, or periods when raw materials feed is stopped, fuel shall consist of up to 2069 lbs/hr of Flolite re-refined oil blend containing no more than 1 percent sulfur by weight, or coal containing no more than 1.0 percent sulfur by weight. At all times the Flolite oil shall contain no higher concentration of metals or toxics than listed below:

Cadmium - 0.3 ppm, Lead - 5.0 ppm, Arsenic - 1.0 ppm

6. Emissions from the No. 2 kiln shall not exceed the following:

Pollutant	Maximum Allowable Emissions	
	lbs/hr	tons per year
PM	12.6	51.7
SO <sub>2</sub>	11.0	45.0
NO <sub>x</sub>	144.8	593.8
VOC	7.44	31.2
CO	64.0	262.2
VE	10% opacity	

7. Compliance shall be demonstrated in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60 Appendix A (1988) using the following methods:

EPA Method 5 for PM  
EPA Method 6 for SO<sub>2</sub>  
EPA Method 7 for NO<sub>x</sub>  
EPA Method 9 for VE  
EPA Method 10 for CO  
EPA Method 25 or 25A for VOC

8. The kiln feed rate and clinker production rate shall be monitored and recorded daily in accordance with 40 CFR 60.63. The coal feed rate to the kiln and the average coal sulfur content and heating value (BTU/lb) of each coal shipment shall be determined and recorded. If coal of sulfur content exceeding 1.0 percent by

PERMITTEE:

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Florida Mining and Materials Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

weight is fired in the kiln (due to variability in the sulfur content of coal within a shipment) samples will be taken of coal entering the kiln at a minimum frequency of once per hour and analyzed for sulfur content. The average sulfur content of samples taken within each 3-hour period shall not exceed 1.0 percent by weight.

9. Emissions of NO<sub>x</sub> will be minimized through the use of low excess air firing. A continuous kiln exhaust gas oxygen monitor/recorder shall be installed, calibrated, operated and maintained in proper working order.

10. The applicant shall apply reasonable work practices to minimize fugitive PM emissions, including the following:

- a. All permanent haul roads shall be paved.
- b. Temporary haul roads shall be watered or treated with chemical dust suppressants at regular intervals.
- c. Dry raw materials (moisture content  $\leq$  14 %) shall be stored in silos or enclosed structures.
- d. The coal storage pile shall be compacted, turned and/or watered as necessary to maintain a minimum 8 percent moisture content in the surface layer and aligned with the predominant wind direction to minimize wind erosion.
- e. Abandoned haul roads and other disturbed areas shall be revegetated within 60 days of the date active service ends.
- f. All cement products shall be transferred to transport trucks with a sealed pneumatic conveying system which is either a closed system or exhausted through a bag filter.

11. The applicant shall comply with all of the applicable provisions and requirements of F.A.C. Chapters 17-2, 17-4, and 40 CFR 60 Subpart F.

12. The Department's Southwest District office shall be notified at least 15 days prior to compliance testing. Test reports shall be submitted to the Department's Southwest District office within 30 days of compliance test completion.



PERMITTEE: Florida Mining and Materials Permit Number: AC 27-173474  
Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

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

14. An application for an operation permit must be submitted to the Department's Southwest District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

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

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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