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	Check Shee	<u>t</u>	- / /
Company Name: FM2, M Permit Number: AC 27-173 PSD Number: County: Permit Engineer: Others involved:	474		-7P 3/5
Application: Initial Application Incompleteness Letters Responses Final Application (if applicable) Waiver of Department Action Department Response Other			
Intent: Intent to Issue Notice to Public Technical Evaluation BACT Determination Unsigned Permit Correspondence with: EPA Park Services County Other Proof of Publication Petitions - (Related to extensions,	, hearings, etc.)		
Other Final Determination: Final Determination Signed Permit BACT Determination Other Post Permit Correspondence:			
Extensions Amendments/Modifications Response from EPA Response from County Response from Park Services Other	n Dactual	certificate	of completion

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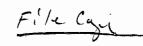
P 256 396 119

RECEIPT FOR CERTIFIED MAIL

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

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. U.S.G.P.O. 1989-234-555	Henry E. And	lre .
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	Certified Fee	
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	Return Receipt showing to whom and Date Delivered	
PS Form 3800, June 1985	Return Receipt showing to whom, Date, and Address of Delivery	
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SENDER: Complete items 1 and 2 when additional 3 and 4. Put your address in the "RETURN TO" Space on the rever card from being returned to you. The return receipt fee will p to and the date of delivery. For additional fees the following for fees and check box(es) for additional service(s) request 1. Show to whom delivered, date, and addressee's ad (Extra charge)	se side. Failure to do this will prevent this rovide you the name of the person delivered services are available. Consult postmaster ted.
3. Article Addressed to: Henry E Andre, V.P.	4 Article Number P 256 396 119
Fla. Mining & Materials P.O. Box 6 Brooksville, Fl 34605-0006	Type of Service: Registered Insured Certified COD Express Mail Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Address	Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X 7. Date of Delivery	
7.27-9.5 Po Form 38 (7) Nor 48 1 (4.5) 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	rong of the state





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. 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

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 Kile 37/25/90 Man

CERTIFICATE OF SERVICE

\ <u>_</u>	The	und	ersign	ned	du?	ly	designa	ted	dep	uty c	lerk	hereb	Y
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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.

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

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_x 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.

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.

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.

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.

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.

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 A lbs/hr	llowable Emissions tons per year
PM	13.5	55.3
SO ₂	11.5	47.0
NOX	162.3	665.3
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 SO₂ EPA Method 7 for NOx EPA Method 9 for VE EPA Method 10 for CO EPA Method 25A for VOC

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 NOx 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.

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 20th day of 41y 1990

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

STEVE SMALLWOOD, P.E.

Director

Division of Air Resources

Management

Attachments Available Upon Request



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Steve Smallwood

FROM: Clair Fancy

DATE: July 20, 1990

SUBJ: Approval of Construction Permit No. AC 27-173474

Florida Mining and Materials

Attached for your approval and signature is a permit prepared by the Bureau of Air Regulation for the above mentioned company to modify the operation of Kiln No. 2 at their Brooksville facility.

No comments were received during the public notice period, although additional information was requested by a person residing near the plant. Prior to the public notice period, the applicant requested minor changes in wording of some permit conditions, and these are discussed in the Final Determination.

Day 90, after which this permit will be issued by default, is July 27, 1990.

I recommend your approval and signature.

SS/JR/plm

Attachments

CHE- Check page 6 & Ef 25 A

CHE- With opposite for + and

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other wise

other wise

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

Folder Name: Florida Mining and Materials

Permit(s) Numbered:

AC 27 -173474

Documents:

Period during

Detailed Description

which

document was

received

Application 12/04/89

1. Attachment to application: Figure V-5 USGS

TOPOGRAPHICAL MAP

2. Attachment to application: SUPPLEMENTAL INFORMATION: SECTION VII

3.26-91 Orlando, FC

CROSS/TESSITORE & ASSOCIATES, P.A.

4763 S. CONWAY ROAD, SUITE F ORLANDO, FLORIDA 32812 407/851-1484



March 21, 1991

RECEIVED

MAR 28 1991

DER-BAUM

Mr. Bill Thomas, P.E. Air Engineering Section FDER-Southwest District 4520 Oak Fair Blvd. Tampa, Florida 33610-7347

SUBJECT: Florida Mining and Materials

Permit No. AC27-173474 Kiln No. 2

Permit Nos. AC27-185898; AC27-185900 thru 185907

Kiln No. 2 Auxiliary Sources

C/TA # F03.175

Dear Mr. Thomas:

This correspondence concerns the subject permitted sources. Please find enclosed four copies of each permit number package of the F.D.E.R. Air Pollution Sources Certificate of Completion of Construction for the following permitted sources:

Permit Number	Source	Identification	Permit Fee
AC27-173474 AC27-185898 AC27-185900 AC27-185901 AC27-185902 AC27-185903 AC27-185904 AC27-185905 AC27-185906 AC27-185907 AC27-185907	(E-19) (L-07;M09;M10) (N-23) (P-05;P-07;Q-17) (F-17;G-11) (H-13) (M-3514) (M-2280) (K-09) (C-11A) (C-11)	Kiln No. 2 Clinker Handling Finish Mill Cement Silo Blending Silo Raw Mill No. 2 Cement Bagging Raw Material Premix Clinker Cooler No. 2 Raw Materials Storage Fly Ash Storage Silo	\$1500.00 \$ 750.00 \$ 750.00 \$ 750.00 \$ 750.00 \$ 750.00 \$ 750.00 \$ 750.00 \$ 1500.00
1102, 10350,	(6 11)	TOTAL	\$9000.00

March 21, 1991 Mr. Bill Thomas Page Two

Also enclosed is a check in the amount of \$9,000 made payable to the Florida Department of Environmental Regulation, for the application processing fee necessary for the 5 year operating permits for the ten (10) permit numbers.

Should you have any questions or comments, please do not hesitate to call me.

Sincerely,

Gregory R. Gonzales Environmental Specialist

GRG/slw ENC: A/S

CC: Bruce Mitchell F.D.E.R. Tallahassee

John Reynolds F.D.E.R. Tallahassee

Ralph Shepard Florida Mining & Materials

C3383.DOC

VENDOR NO. INVOICE DATE DOCUMENT		DOCUMENT NO.	REMARKS	GROSS	DISCOUNT	NET AMOUNT		
18126	3	20	91 RS	91079		9,000.00	. 00	9,000.00
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DETACH BEFORE DEPOSITING

FLORIDA MINING & MATERIALS

A SOUTHDOWN COMPANY

P.O. BOX 6 BROOKSVILLE, FLORIDA 34605-0606

82-91

United Bank of Grand Junction, N.A. GRAND JUNCTION, COLORADO 61501 PAYABLE IF DESIRED THROUGH WELLS FARGO BANK, N.A.

L

FLORIDA MINING & MATERIALS

A SOUTHDOWN COMPANY
P.O. BOX 6
BROOKSVILLE, FLORIDA 34605-0006

No. 030469

{	DATE	OF CH	ECK	CHECK NO.	AMOUNT OF CHECK
	H	22	91	30469	******

FLORIDA MINING & MATERIALS

PAY TO THE ORDER OF FLA DEPT OF ENVIRONMTL REGLTN 4520 OAK FAIR BLVD TAMPA FL 33610

Comes L. Chestung

Karen a. Twitchell

CROSS/TESSITORE & ASSOCIATES, P.A.



4763 S. CONWAY ROAD, SUITE F ORLANDO, FLORIDA 32812 407/851-1484

MARCH 15, 1991 F03.175

RECEIVED

MAR 19 1991

DER - BAQM

Mr. Bill Thomas, P.E. Air Engineering Section FDER-Southwest District 4520 Oak Fair Boulevard Tampa, Florida 33610-7347

SUBJECT: Florida Mining and Materials

Permit No. AC27-173474 - Kiln No. 2

Permit Nos. AC27-185898; AC27-185900 through 185907

Kiln No. 2 Auxiliary Sources

Dear Mr. Thomas:

This correspondence, concerning the subject sources, is in accordance with our March 14, 1991, telephone conversation. From our conversation, it is our understanding that:

As stated in the specific conditions of the existing subject source construction permits, an F.D.E.R. Air Pollution Sources Certificate of Completion of Construction must be submitted to the F.D.E.R. within 45 days after the compliance test. You have granted us an extension from the current due date of March 15, 1991, until March 25, 1991. This extension is necessary to allow the sixteen (16) permitted sources package to be reviewed and signed by all of the necessary parties.

Also, you have requested us to submit the Certificate of Completion on Kiln No. 2 at the tested increased kiln input rate of 130 Tons/yr. We currently have submitted additional requests for modifications to Kiln No. 2 to the Tallahassee F.D.E.R. office. The Tallahassee office is currently working on issuing construction permits for these modifications. It is your feeling that to avoid confusion, a construction permit should be issued and compliance with the construction permit should be demonstrated, and the source issued an operating permit, prior to the issuance of additional construction permits.

Should you have any questions, please do not hesitate to call.

Sincerely,

GRG: kim

Tallahassee Office Ralph Spehard, FM&M Gregory R. Gonzales Environmental Specialist

REGISTERED PROFESSIONAL ENGINEERS
Federal ID # 59-1638534



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

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

AUG 2 0 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 RECEIVED

AUG 2 3 1990

DER-BAQM

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,

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

HOPPING BOYD GREEN & SAMS

ATTORNEYS AND COUNSELORS

123 SOUTH CALHOUN STREET
POST OFFICE BOX 6526

TALLAHASSEE, FLORIDA 32314

(904) 222-7500 FAX (904) 224-8551

July 13, 1990

LYDIA R. ANNUNZIATA
KATHLEEN BLIZZARD
THOMAS M. DEROSE
RICHARD W. MOORE
DIANA M. PARKER
LAURA BOYD PEARCE
MICHAEL R PETROVICH
DAVID L. POWELL
DOUGLAS S. ROBERTS
CECELIA C. SMITH
SAM J. SMITH
CHERYL G. STUART

OF COUNSEL
W. ROBERT FOKES

BY HAND DELIVERY

CARLOS ALVAREZ

JAMES S. ALVES

BRIAN H. BIBEAU

ELIZABETH C. BOWMAN

RICHARD S. BRIGHTMAN

PETER C. CUNNINGHAM

WILLIAM L. BOYD, IV

WILLIAM, H. GREEN

WADE L. HOPPING

FRANK E. MATTHEWS

RICHARD D. MELSON

WILLIAM D. PRESTON CAROLYN S. RAEPPLE

ROBERT & SMITH, JR.

GARY P SAMS

Dale H. Twachtmann, Secretary c/o Office of General Counsel Florida Department of Environmental Regulation 2600 Blair Stone Road, Room 654 Tallahassee, Florida 32399-2400

Re: Florida Mining & Materials
Brooksville Cement Plant Kiln No. 2
Permit No. AC27-173474

Dear Secretary Twachtmann:

On April 30, 1990, Florida Mining & Materials ("FMM") received the Department's Notice of Intent to issue air construction permit No. AC27-173474 for Kiln No. 2 at its Brooksville Cement Plant located in Hernando County, Florida. The Department's Technical Evaluation and Preliminary Determination was received along with the Notice of Intent. Pursuant to your Order dated June 15, 1990, FMM has until July 13, 1990 to file a petition for administrative proceedings regarding the permit.

I am writing on behalf of FMM to request an extension of thirty-one (31) days, to and including August 13, 1990, in which to file a petition for administrative proceedings regarding the permit. This request is made pursuant to Florida Administrative Code Rule 17-103.070, which provides that a timely request for extension of time shall toll the running of the time period in which to file an appropriate petition. As good cause for granting the requested extension of time for filing, FMM would show the following:

Dale H. Twachtmann, Secretary July 13, 1990 Page 2

- 1. The proposed permit contains fourteen specific conditions, several of which appear to warrant clarification or correction.
- 2. FMM representatives have discussed the proposed permit and accompanying Technical Evaluation and Preliminary Determination with the Chief of the Department's Bureau of Air Regulation. Based upon that discussion, FMM submitted a letter to the Department requesting certain revisions in the permit conditions.
- 3. This request is filed as a protective measure to avoid waiver of FMM's rights to challenge the permit as proposed. Grant of this request will allow the parties an opportunity to discuss the pertinent permit provisions and to achieve a mutually acceptable resolution of points in need of clarification or correction, without the initiation of formal administrative proceedings.

I hereby certify that I have attempted to contact Clair Fancy, Chief of the Department's Bureau of Air Regulation, regarding this matter.

Accordingly, I respectfully request that you formally extend the time for filing of a petition for administrative proceedings in regard to the Departments Notice of Intent to issue air construction permit No. AC27-173474 to and including August 13, 1990.

Sincerely,

Peter C. Cunningham

FlMinExt:PCC/gbb

cc: Clair Fancy, P.E.

Richard Donelan, Esquire

C. M. Coleman, Jr.

2. Remoles



P 237 527 210

Mr. C.H. Fancy, P.E. Chief Bureau of Air Regulations Florida Dept. of Environmental Regulations Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, FL 32399-2400

BEST AVAILABLE COPY



FLORIDA MINING & MATERIALS

A SOUTHDOWN COMPANY

P. O. BOX 6, BROOKSVILLE, FLORIDA 34605-0006 TELEPHONE (904) 796-7241

July 11, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. C.H. Fancy, P.E. Chief Bureau of Air Regulations Florida Dept. of Environmental Regulations Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, FL 32399-2400

Dear Mr. Fancy:

Attached is the Affidavit of Legal Publication, published in the Sun Journal on June 22, 1990. This Intent to Issue was for the modification to Florida Minings' #2 Kiln Permit.

Sincerly,

Ralph E. Shepard

Manager Environmental Affairs

RES/jp

cc: Hank Andre

Don Kelly

Joe Tessitore

RECEIVED

JUL 1 6 1990

DER - BAQU

John 12, 32

AFFIDAVIT OF LEGAL PUBLICATION

The Sun-Journal
Published Tuesday thru Saturday
Brooksville, Hernando, Florida
STATE OF FLORIDA
COUNTY OF HERNANDO

the matter of

Before the undersigned authority personally appeared David Poole, who on oath says he is General Manager of the Sun-Journal, a daily newspaper published at 703 Lamar Ave., Brooksville in Hernando County, Florida; that the attached copy of advertisement, being a legal advertisement in

Notice of Intent

The maker of
in the Cour
was published in said newspaper in the issues of
6-22
Affiant says that the said Sun-Journal is a newspaper published at 703 Lamar Ave., Brooksville, in said Hernando County, Florida, and that said newspaper has heretofore been continuously published in said Hernando County, Florida, each Tuesday thru Saturday and has been entered as second-class mail matter at the post office in Brooksville, in said Hernando County, Florida, for a period of 1 year next preceding the first publication of the attached copy of advertisement; and further says that he has neither paid nor promised any person, firm of corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.
David Poole, General Manager, The Sun-Journal
Sworn to and subscribed before me this22ndday o
BY: Chomster Freezes el
Filed19, atO'clockM. and Recorded in
Book No, Page
Record Verified
Clerk,Court, Hernando County, FL
ByD.C.

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, witnin 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

(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 e 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

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

public inspection during busi-

ness hours, 8:00 a.m. to 5:00

p.m., Monday through Friday,

except legal holidays, at:

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 publica-

tion of this notice will be considered in the Department's final determination. PUBLISH: June 22, 1990



13424 Brooksville Rock Road Brooksville, Florida 34614 Tel (904)7967037 June 26, 1990

Mr. H.C.Fancy Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

RE: Florida Mining and Materials - Hernando County Notice Of Intent To Issue - Kiln No. 2

Dear Mr. Fancy:

I read the public notice printed in the June 22nd edition of "The Brooksville Sun Journal" regarding your Department's intent to modify the permit for the No.2 kiln at Florida Mining and Materials(FM&M). The narrative statement in this ad did not mention whether or not there would be any additional impacts to air quality due to the proposed operation changes. I would like to know if the proposed changes will result in increased emissions from this facility. I would also like to know the reason that this permit modification is needed by FM&M.

Thank you for your attention.

Sincerely,

Paul J. Furman

HOPPING BOYD GREEN & SAMS

ATTORNEYS AND COUNSELORS

123 SOUTH CALHOUN STREET

POST OFFICE BOX 6526

TALLAHASSEE, FLORIDA 32314

(904) 222-7500

RECEIV FAX 18 OHI 224-8551

JUN 1 3 1990

DER - BAQiii June 12, 1990 LYDIA R. ANNUNZIATA
KATHLEEN BLIZZARD
THOMAS M. DEROSE
RICHARD W. MOORE
DIANA M. PARKER
LAURA BOYD PEARCE
MICHAEL R. PETROVICH
DAVID L. POWELL
DOUGLAS S. ROBERTS
CECELIA C. SMITH
SAM J. SMITH
CHERYL G. STUART

OF COUNSEL

BY HAND DELIVERY

F . 3.7

CARLOS ALVAREZ

JAMES S. ALVES .

BRIAN H. BIBEAU

ELIZABETH C. BOWMAN

RICHARD S. BRIGHTMAN

WILLIAM L. BOYD. IV

WILLIAM, H. GREEN

WADE L. HOPPING

FRANK E. MATTHEWS

RICHARD D. MELSON

WILLIAM D. PRESTON

CAROLYN S. RAEPPLE

ROBERT & SMITH, JR.

GARY R SAMS

Dale H. Twachtmann, Secretary c/o Office of General Counsel Florida Department of Environmental Regulation 2600 Blair Stone Road, Room 654 Tallahassee, Florida 32399-2400

Re: Florida Mining & Materials

Brooksville Cement Plant Kiln No. 2

Permit No. AC27-173474

Dear Secretary Twachtmann:

On April 30, 1990, Florida Mining & Materials ("FMM") received the Department's Notice of Intent to issue air construction permit No. AC27-173474 for Kiln No. 2 at its Brooksville Cement Plant located in Hernando County, Florida. The Department's Technical Evaluation and Preliminary Determination was received along with the Notice of Intent. Pursuant to your Order dated June 13, 1990, FMM has until June 13, 1990 to file a petition for administrative proceedings regarding the permit.

I am writing on behalf of FMM to request an extension of thirty (30) days, to and including July 13, 1990, in which to file a petition for administrative proceedings regarding the permit. This request is made pursuant to Florida Administrative Code Rule 17-103.070, which provides that a timely request for extension of time shall toll the running of the time period in which to file an appropriate petition. As good cause for granting the requested extension of time for filing, FMM would show the following:

Dale H. Twachtmann, Secretary June 12, 1990 Page 2

- 1. The proposed permit contains fourteen specific conditions, several of which appear to warrant clarification or correction.
- 2. FMM representatives have discussed the proposed permit and accompanying Technical Evaluation and Preliminary Determination with the Chief of the Department's Bureau of Air Regulation. Based upon that discussion, FMM submitted a letter to the Department requesting certain revisions in the permit conditions.
- 3. This request is filed as a protective measure to avoid waiver of FMM's rights to challenge the permit as proposed. Grant of this request will allow the parties an opportunity to discuss the pertinent permit provisions and to achieve a mutually acceptable resolution of points in need of clarification or correction, without the initiation of formal administrative proceedings.

I hereby certify that I have contacted Clair Fancy, Chief of the Department's Bureau of Air Regulation, regarding this matter and that he does not object to the grant of this request.

Accordingly, I respectfully request that you formally extend the time for filing of a petition for administrative proceedings in regard to the Departments Notice of Intent to issue air construction permit No. AC27-173474 to and including July 13, 1990.

Sincerely,

Peter C. Crinningham / by por

Peter C. Cunningham

FlMinExt:PCC/qbb

cc: Clair Fancy, P.E.
Carol Forthman, Esquire
C. M. Coleman, Jr.



CROSS/TESSITORE & ASSOCIATES, P.A.

4763 S. CONWAY ROAD, SUITE F ORLANDO, FLORIDA 32812 407/851-1484

RECEIVED

JUN 0 4 1990

May 31, 1990

DER-BAQM

Mr. C.H. Fancy Bureau of Air Regulation Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blairstone Road Tallahassee, FL 32399-2400

Subject:

Florida Mining and Materials

No. 2 Kiln; Permit # AC 27-138850-PSD-FL-124

C/TA #F03.182

Dear Mr. Fancy:

Currently, Florida Mining and Materials is developing a response to a Technical Evaluation and Preliminary Determination issued by the Department on April 25, 1990 for the subject source. This letter is to verify that, while processing of the new permit continues, the existing Construction Permit # AC 27-138850-PSD-FL-124 is still in effect. The expiration date of April 1, 1990 for this permit has passed. However, the initial Application to Amend (modify) the construction permit was submitted in December, 1989 and since the modification is not yet complete, the permit should remain valid.

If you have any questions concerning this, please do not hesitate to contact me.

Sincerely,

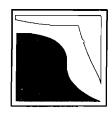
Joseph L. Tessitore, P.E. Kr

Vice President

JLT/kp

B. Coleman

g. Reynolds B. Thomas, Sw Dist. CHF/BA



FLORIDA MINING & MATERIALS

CONSTRUCTION MATERIALS DIVISION

P. O. BOX 6, BROOKSVILLE, FLORIDA 34605-0006 TELEPHONE (904) 796-7241

C. M. COLEMAN, JR.
VICE PRESIDENT & GENERAL MANAGER

May 2l, 1990

RECEIVED

MAY 22 1990

DER - BAQM

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

Dear Mr. Fancy:

This letter is in response to the Technical Evaluation and Preliminary Determination and proposed permit for Florida Mining & Materials' No. 2 kiln near Brooksville, Florida.

Please consider making the following changes to the language in the proposed permit:

- 1. The owner of the facility is Moore McCormack Resources, Inc., a subsidiary of Southdown, Inc. Florida Mining & Materials is a dba name. Please issue the permit in the name of Moore McCormack Resources, Inc. dba Florida Mining & Materials. The required public notification will be in the name of Florida Mining & Materials.
- 2. Our application requests an amendment to the No. 2 kiln permit. We have not made, and do not propose any, modifications to the No. 2 kiln itself. Please change the description on the title page and throughout the document from "Modification to Kiln No. 2" to "Amendment to No. 2 Kiln Permit."
- 3. Specific condition #3 -- add the following language after (dry basis), "averaged over 8,200 hours per year."
- 4. Specific condition #5 -- Change 2,069 lbs/hour to "2,069 gallons/hour." Line #2, after the word stopped, add -- "or when coal is excessively wet."
- 5. Specific condition #6 -- The emission limits for PM, S0₂, N0_x, and V0C do not agree with the limits shown in the table included in the Technical Evaluation section.

Mr. C. H. Fancy, P.E. May 2l, 1990 Page Two

Please change the table in specific condition #6 to conform to the values shown in the Technical Evaluation section.

- 6. Specific condition #10c -- after the words shall be stored, add -- "below natural grade."
- 7. Specific condition #10d -- Delete "The coal storage pile shall be" and add -- "Coal stored at or above natural grade shall be."

In order to ensure these specific requested changes are communicated to you properly, I've also included a marked-up copy of the proposed permit.

Finally, the new proposed emission limits on $N0_x$ of l62.3 lbs/hour are severely restrictive and difficult to achieve. Previous compliance testing since 1986 has resulted in emissions of 403 lbs/hr (April 1986), 244 lbs/hr (May 1986), lll.9 lbs/hr (Aug. 1986), 172.8 lbs/hr (April 1987), ll7 lbs/hr (June 1988), l27.2 lbs/hr (May 1989, and l8l.8 lbs/hr (May 1989). The current allowable rate of 250 lbs/hr is tight, but achievable and we will pursue this limit with EPA Region IV personnel.

Sincerely,

C. M. Coleman, J.

Vice President and General Manager

CMC,Jr:gm

Enclosure

B. Shomas, Sw. Dist.

HOPPING BOYD GREEN & SAMS

ATTORNEYS AND COUNSELORS

123 SOUTH CALHOUN STREET POST OFFICE BOX 6526

TALLAHASSEE, FLORIDA 32314

(904) 222 - 7500

FAX (904) 224 - 8551

THOMAS M. DEROSE RICHARD W. MOORE DIANA M. PARKER LAURA BOYD PEARCE MICHAEL P. PETROVICH DAVID L. POWELL DOUGLAS S. ROBERTS CECELIA C. SMITH SAM J. SMITH

KATHLEEN BLIZZARD

May 14, 1990

OF COUNSEL W. ROBERT FOKES

CHERYL G. STUART

BY HAND DELIVERY

CARLOS ALVAREZ

JAMES S. ALVES

BRIAN H. BIBEAU ELIZABETH C. BOWMAN

WILLIAM L. BOYD, IV

WILLIAM H. GREEN

WADE L. HOPPING

GARY P. SAMS

FRANK E. MATTHEWS

RICHARD D. MELSON WILLIAM D. PRESTON CAROLYN S. RAEPPLE

ROBERT P. SMITH, JR.

RICHARD S. BRIGHTMAN

PETER C. CUNNINGHAM

Dale H. Twachtmann, Secretary c/o Office of General Counsel Florida Department of Environmental Regulation 2600 Blair Stone Road, Room 654 Tallahassee, Florida 32399-2400

Re: Florida Mining & Materials

Brooksville Cement Plant Kiln No. 2

Permit No. AC27-173474

Dear Secretary Twachtmann:

On April 30, 1990, Florida Mining & Materials ("FMM") received the Department's Notice of Intent to issue air construction permit No. AC27-173474 for Kiln No. 2 at its Brooksville Cement Plant located in Hernando County, Florida. The Department's Technical Evaluation and Preliminary Determination was received along with the Notice of Intent. Pursuant to the Notice of Intent, FMM has until May 14, 1990 to file a petition for administrative proceedings regarding the permit.

I am writing on behalf of FMM to request an extension of thirty (30) days, to and including June 13, 1990, in which to file a petition for administrative proceedings regarding the permit. This request is made pursuant to Florida Administrative Code Rule 17-103.070, which provides that a timely request for extension of time shall toll the running of the time period in which to file an appropriate petition. As good cause for granting the requested extension of time for filing, FMM would show the following:

Dale H. Twachtmann, Secretary May 14, 1990 Page 2

- 1. The proposed permit contains fourteen specific conditions, several of which appear to warrant clarification or correction.
- 2. FMM representatives will be discussing the proposed permit and accompanying Technical Evaluation and Preliminary Determination with permitting staff of the Department's Bureau of Air Regulation in the near future.
- 3. This request is filed as a protective measure to avoid waiver of FMM's rights to challenge the permit as proposed. Grant of this request will allow the parties an opportunity to discuss the pertinent permit provisions and to achieve a mutually acceptable resolution of points in need of clarification or correction, without the initiation of formal administrative proceedings.

I hereby certify that I have contacted Clair Fancy, Chief of the Department's Bureau of Air Regulation, regarding this matter and that he does not object to the grant of this request.

Accordingly, I respectfully request that you formally extend the time for filing of a petition for administrative proceedings in regard to the Departments Notice of Intent to issue air construction permit No. AC27-173474 to and including June 13, 1990.

Sincerely,

Peter C. Cunningham

FlMinExt:PCC/qbb

cc: Clair Fancy, P.E.

Gary Smallridge, Esquire

C. M. Coleman, Jr.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

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

MAY **9** 1990

4APT/AE

RECEIVED MAY 11 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

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,

Dally S. June, for Jewell A. Harper, Chief

Air Enforcement Branch

Air, Pesticides, and Toxics

Management Division

C.M. Coleman Jr., V.P.

Florida Mining and Materials

P.O. Box 6

Brooksville, Florida 34605-0006

J. Reynaldo B. Idomas, sw D

P 538 762 878

RECEIPT FOR CERTIFIED MAIL

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

-	Special Specia	lre Nê Mat.
	Postage	S
	Certified Fee	
	Special Delivery Fee	
	Restricted Delivery Fee	
	Return Receipt showing to whom and Date Delivered	
s 198	Return Receipt showing to whom, Date, and Address of Delivery	
Jun,	TOTAL Postage and Fees	S
Form 3800, June 1985	Posimark or Date 4-26-90	
PS Fo	AC 27-173474	

SENDER: Complete items 1 and 2 when additional	services are desired and complete items
3 and 4	the second secon
Put your address in the "RETURN TO" Space on the rever	se side. Failure to do this will prevent this
card from being returned to you. The return receipt fee will p	rovide you the name of the person delivered
to and the date of delivery. For additional fees the following for fees and check box(as) for additional service(s) reques	
1. Show to whom delivered, date, and addressee's ad	
(Extra charge)	(Extra charge)
3. Article Addressed to:	4 Article Number
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Howard E. College, of	1 100 100 010
IFI - MINING & MITCHELD	Type of Service:
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Henry E. andre, VP. Fla. Mining & Materials P.O. BOX 6	Express Mail Return Receipt
Brooksville, Fl	Tor Merchandise
Diego J. Tillog and	Alwayayobtain signature of addressee
34605-0006	or agent and DATE DELIVERED.
5. Signature - Address	8. Addressed's Address (ONLY if
- 1-	requerted and fee produ
X	
6 Signature - Agent	S APA S
18 to the state of	1 (2) 327 121
7. Date of Delivery	1890 /S
	400
PS Form 3811, Mar. 1988 * U.S.G.P.O. 1986-212-	-865 DOMESTIC RETURN RECEIPT
FO FUITH OUT 1, Mail. 1700 . U.O.G.F.U. 1800-212	-000 POMESTIONE TONK RECEIF



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

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 For the purpose of this rule, "publication affected. 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 petition must Statutes. Florida The contain 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 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, 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 The petition must conform to the requirements specified above and be filed (received) within 14 days publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the frame constitutes a time waiver of right such any

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

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy P.E.

Chief

Bureau of Air Regulation

Copies furnished to:

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.

Clerk

Date

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

The Department of Environmental Regulation hereby gives notice of its intent to issue a 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 contain Florida Statutes. The petition must 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:

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- (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 to formulate agency action. Accordingly, 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 days 14 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

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 (SO₂) 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 SO₂ 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:

		rent wable		rent ual ⁽¹⁾		ew wable(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
50_2	12.0	47.4	1.8	7.1	11.5	47.0	39.9	40
	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), SO₂ and NOx. 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 mot compare or contribute to a violation of any air quality standard PSD increment, or any other technical provision of Chapter 1702 of the Florida Administrative Code.

A NOTAL CHOOL



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 The above named permittee is hereby authorized to and 17-4. perform the work or operate the facility shown on the application 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 The facility is located in Brooksville, Hernando raw mill. County, Florida. The UTM coordinates are Zone 17, 356.0 km East and 3169.9 km North.

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:

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

Page 1 of 8



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 condition 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.

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.

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.

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

PERMITTEE: Permit Number: AC 27-173474

Florida Mining and Materials 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:

<u>Pollutant</u>	Maximum Al lbs/hr	lowable Emissions tons per year
PM SO ₂ NOx VOC	12.6 11.0 144.8 7.44	51.7 45.0 593.8 31.2 262.2
CO VE	64.0	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:

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EPA Method 5 for PM
EPA Method 6 for SO<sub>2</sub>
EPA Method 7 for NOx
EPA Method 9 for VE
EPA Method 10 for CO
EPA Method 25 or 25A for VOC
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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

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 NOx 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.

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

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

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAMASSEE, FLORIDA 32301



GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

RECEIVED

MAR 29 1990

DER - BAOM.

WAIVER OF 90 DAY TIME LIMIT UNDER SECTIONS 120.60(2) AND 403.0876, FLORIDA STATUTES

	· .
License (Permit, Certification)	Application No. AC 27-173474
Applicant's Name: Florida Mi	ning & Materials
The undersigned has read Sections 120.60(2 understands the applicant's rights under th) and 403.0876, Florida Statutes, and fully at section.
applicant hereby with full knowledge and under Sections 120.60(2) and 403.0876, Florida Stations 120.60(2) and 403.0876, Florida Statenied by the State of Florida Department of time period prescribed in Sections 120.60 waiver is made freely and voluntarily by t	se (permit, certification) application, the understanding of (his) (her) (its) rights prida Statutes, waives the right under Sectutes, to have the application approved or f Environmental Regulation within the 90 day (2) and 403.0876, Florida Statutes. Said he applicant, is in (his) (her) (its) selfercion by anyone employed by the State of ion.
This waiver shall expire on the 3rd day	of May 19 90.
The undersigned is authorized to make this	waiver on behalf of the applicant.
This waiver is intended only to extended Sections 120.60(2) and 403.0876, Flo	end the 90 day period prescribed in orida Statutes, by 30 days.
	Jan S. J
	James S. Alves
·	Hopping Boyd Green & Sams
Sworn to and subscribed before me this 28thday of March 1990.	Please Type Name of Signee P. O. Box 6526, Tallahassee, FL 32314 March 28, 1990
The Ball	Date

Notary Public

Notary Public, State of Florida My commission expires: My Commission Expires May 17, 1990 Ponded thru Troy fain - Insurance tac.

DER Form 17-1.201(8)

Effective November 30, 1982

Page 1 of 2.

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When an application for a license is made as required by law, the agency (2) shall conduct the proceedings required with reasonable dispatch and with due regard to the rights and privileges of all affected parties or aggrieved persons. Within 30 days after receipt of an application for a license, the agency shall examine the application, notify the applicant of any apparent errors or omissions, and request any additional information the agency is permitted by law to require. Failure to correct an error or omission or to supply additional information shall not be grounds for denial of the license unless the agency timely notified the applicant within this 30 day period. The agency shall notify the applicant if the activity for which he seeks a license is exempt from the licensing requirement and return any tendered application fee within 30 days after receipt of the original application or within 10 days after receipt of the timely requested additional information or correction of errors or omissions. Every application for license shall be approved or denied within 90 days after receipt of the original application or receipt of the timely requested additional information or correction of errors or omissions unless a shorter period of time for agency action is provided by law. The 90-day or shorter time period shall be tolled by the initiation of a proceeding under Section 120.57 and shall resume 10 days after the recommended order is submitted to the agency and the parties. Any application for a license not approved or denied within the 90-day period or shorter time period, within 15 days after conclusion of a public hearing held on the application, or within 45 days after the recommended order is submitted to the agency and the parties, whichever is latest, shall be deemed approved and, subject to the satisfactory completion of an examination, if required as prerequisite to licensure, the license shall be issued. The Public Service Commission, when issuing a license, and any other agency, if specifically exempted by law, shall be exempt from the time limitations within this subsection. Each agency, upon issuing or denying a license, shall state with particularity the grounds or basis for the issuance or denial of same, except where issuance is a ministerial act. On denial of a license application on which there has been no hearing, the denying agency shall inform the applicant of any right to a hearing pursuant to Saction 120.57.

Section 403.0876, Florida Statutes

Permits; processing. ---Within 30 days after receipt of an application for a permit under this chapter, the department shall review the application and shall request submittal of all additional information the department is permitted by law to require. If the applicant believes any departmental request for additional information is not authorized by law or departmental rule, the applicant may request a hearing pursuant to s. 120.57. Within 30 days after receipt of such additional information, the department shall review it and may request only that information needed to clarify such additional information or to answer new questions raised by or directly related to such additional information. If the applicant believes the request of the department for such additional information is not authorized by law or departmental rule, the department, at the aplicant's request, shall proceed to process the permit application. Permits shall be approved or denied within 90 days after receipt of the original application, the last item of timely requested additional material, or the applicant's written request to begin processing the permit application.

DER Form 17-1.201(8) Effective November 30, 1982

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

and fully

RECEIVED

MAR 29 1990

DER - BAYIN

WAIVER OF 90 DAY TIME LIMIT
UNDER SECTIONS 120.60(2) AND 403.0876, FLORIDA STATUTES

License (Permit, Certification) Application No. AC 27-173474
Applicant's Name: Florida Mining & Materials
rsigned has read Sections 120.60(2) and 403.0876, Florida Statutes nds the applicant's rights under that section.

With regard to the above reference license (permit, certification) application, the applicant hereby with full knowledge and understanding of (his) (her) (its) rights under Sections 120.60(2) and 403.0876, Florida Statutes, waives the right under Sections 120.60(2) and 403.0876, Florida Statutes, to have the application approved or denied by the State of Florida Department of Environmental Regulation within the 90 day time period prescribed in Sections 120.60(2) and 403.0876, Florida Statutes. Said waiver is made freely and voluntarily by the applicant, is in (his) (her) (its) self-interest, and without any pressure or coercion by anyone employed by the State of Florida Department of Environmental Regulation

Florida Department of Fuvironmental Regulati	on.
This waiver shall expire on the $3rd$ day o	f May 19 90.
The undersigned is authorized to make this w	aiver on behalf of the applicant.
This waiver is intended only to exter Sections 120.60(2) and 403.0876, Flor	nd the 90 day period prescribed in cida Statutes, by 30 days.
	Jan S/
	James S. Alves
	Hopping Boyd Green & Sams
Sworn tomandipubscribed before as that 28th day of March 29 90.	Please Type Name of Signee P. O. Box 6526, Tallahassee, FL 32314 March 28, 1990
Tikin & Barber	Date
Notary Public, State o My commission expires: My Commission Expires Ma Rended Thru Trey Fain - Insu. DER Formula Truly 201(8)	27 1000
and the control of the same of any	•

Effective November 30, 1982

Page 1 of 2

Section 120.60, Florida Statutes

When an application for a license is made as required by law, the agency shall conduct the proceedings required with reasonable dispatch and with due regard to the rights and privileges of all affected parties or aggrieved persons. Within 30 days after receipt of an application for a license, the agency shall examine the application, notify the applicant of any apparent errors or omissions, and request any additional information the agency is permitted by law to require. Failure to correct an error or omission or to supply additional information shall not be grounds for denial of the license unless the agency timely notified the applicant within this 30 day period. The agency shall notify the applicant if the activity for which he seeks a license is exempt from the licensing requirement and return any tendered application fee within 30 days after receipt of the original application or within 10 days after receipt of the timely requested additional information or correction of errors or omissions. Every application for license shall be approved or denied within 90 days after receipt of the original application or receipt of the timely requested additional information or correction of errors or omissions unless a shorter period of time for agency action is provided by law. The 90-day or shorter time period shall be tolled by the initiation of a proceeding under Section 120.57 and shall resume 10 days after the recommended order is submitted to the agency and the parties. Any application for a license not approved or denied within the 90-day period or shorter time period, within 15 days after conclusion of a public hearing held on the application, or within 45 days after the recommended order is submitted to the agency and the parties, whichever is latest, shall be deemed approved and, subject to the satisfactory completion of an examination, if required as prerequisite to licensure, the license shall be issued. The Public Service Commission, when issuing a license, and any other agency, if specifically exempted by law, shall be exempt from the time limitations within this subsection. Each agency, upon issuing or denying a license, shall state with particularity the grounds or basis for the issuance or denial of same, except where issuance is a ministerial act. On denial of a license application on which there has been no hearing, the denying agency shall inform the applicant of any right to a hearing pursuant to Section 120.57.

Section 403.0876, Florida Statutes

Permits; processing. ---Within 30 days after receipt of an application for a permit under this chapter, the department shall review the application and shall request submittal of all additional information the department is permitted by law to require. If the applicant believes any departmental request for additional information is not authorized by law or departmental rule, the applicant may request a hearing pursuant to s. 120.57. Within 30 days after receipt of such additional information, the department shall review it and may request only that information needed to clarify such additional information or to answer new questions raised by or directly related to such additional information. If the applicant believes the request of the department for such additional information is not authorized by law or departmental rule, the department, at the aplicant's request, shall proceed to process the permit application. Permits shall be approved or denied within 90 days after receipt of the original application, the last item of timely requested additional material, or the applicant's written request to begin processing the permit application.

DER Form 17-1.201(8) Effective November 30, 1982

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301

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BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

RECEIVED

FEB 12 1990

DER-BAQM

WAIVER OF 90 DAY TIME LIMIT UNDER SECTIONS 120.60(2) AND 403.0876, FLORIDA STATUTES

License (Permit, Certification) Application No. AC 27-138850

Applicant's Name: Florida Mining & Materials

The undersigned has read Sections 120.60(2) understands the applicant's rights under th) and 403.0876, Florida Statutes, and fully at section.
applicant hereby with full knowledge and under Sections 120.60(2) and 403.0876, Flotions 120.60(2) and 403.0876, Florida Statement of the State of Florida Department of time period prescribed in Sections 120.60 waiver is made freely and voluntarily by the state of Florida Department of the period prescribed in Sections 120.60 waiver is made freely and voluntarily by the statement of the period prescribed in Sections 120.60 waiver is made freely and voluntarily by the sections 120.60 waiver is waiver in the sections 120.60 waiver is waiver in the section 120.60 waiver is waiver in the section 120.60 waiver is waiver in the section 120.6	e (permit, certification) application, the understanding of (his) (her) (its) rights rida Statutes, waives the right under Sectutes, to have the application approved or f Environmental Regulation within the 90 day (2) and 403.0876, Florida Statutes. Said he applicant, is in (his) (her) (its) self-ercion by anyone employed by the State of ion.
This waiver shall expire on the 3rd day	of <u>April</u> 1990.
The undersigned is authorized to make this	waiver on behalf of the applicant.
This waiver is intended only to exte Sections 120.60(2) and 403.0876, Flo	
	Signature
	Peter C. Cunningham
Sworn to and subscribed be fully map this 12th day of Bebruary 1990	Please Type Name of Signee Hopping Boyd Green & Sams P. O. Box 6526, Tallahassee, FL 32314
Notary Public E My commission Expires: My Commission Expires Ma Bonded Thru Troy Fain - Insur DER Coff 17-11.201(8)	พ. 17 - 19อก
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Page 1 of 2

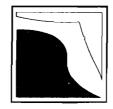
Effective November 30, 1982

Section 120.60, Florida Statutes

When an application for a license is made as required by law, the agency shall conduct the proceedings required with reasonable dispatch and with due regard to the rights and privileges of all affected parties or aggrieved persons. Within 30 days after receipt of an application for a license, the agency shall examine the application, notify the applicant of any apparent errors or omissions, and request any additional information the agency is permitted by law to require. Failure to correct an error or omission or to supply additional information shall not be grounds for denial of the license unless the agency timely notified the applicant within this 30 day The agency shall notify the applicant if the activity for which he seeks a license is exempt from the licensing requirement and return any tendered application fee within 30 days after receipt of the original application or within 10 days after receipt of the timely requested additional information or correction of errors or omissions. Every application for license shall be approved or denied within 90 days after receipt of the original application or receipt of the timely requested additional information or correction of errors or omissions unless a shorter period of time for agency action is provided by law. The 90-day or shorter time period shall be tolled by the initiation of a proceeding under Section 120.57 and shall resume 10 days after the recommended order is submitted to the agency and the parties. Any application for a license not approved or denied within the 90-day period or shorter time period, within 15 days after conclusion of a public hearing held on the application, or within 45 days after the recommended order is submitted to the agency and the parties, whichever is latest, shall be deemed approved and, subject to the satisfactory completion of an examination, if required as prerequisite to licensure, the license shall be issued. The Public Service Commission, when issuing a license, and any other agency, if specifically exempted by law, shall be exempt from the time limitations within this subsection. Each agency, upon issuing or denying a license, shall state with particularity the grounds or basis for the issuance or denial of same, except where issuance is a ministerial act. On denial of a license application on which there has been no hearing, the denying agency shall inform the applicant of any right to a hearing pursuant to Section 120.57.

Section 403.0876, Florida Statutes

Permits; processing. ---Within 30 days after receipt of an application for a permit under this chapter, the department shall review the application and shall request submittal of all additional information the department is permitted by law to require. If the applicant believes any departmental request for additional information is not authorized by law or departmental rule, the applicant may request a hearing pursuant to s. 120.57. Within 30 days after receipt of such additional information, the department shall review it and may request only that information needed to clarify such additional information or to answer new questions raised by or directly related to such additional information. If the applicant believes the request of the department for such additional information is not authorized by law or departmental rule, the department, at the aplicant's request, shall proceed to process the permit application. Permits shall be approved or denied within 90 days after receipt of the original application, the last item of timely requested additional material, or the applicant's written request to begin processing the permit application.



FLORIDA MINING & MATERIALS

CONSTRUCTION MATERIALS DIVISION

P. O. BOX 6, BROOKSVILLE, FLORIDA 34605-0006 TELEPHONE (904) 796-7241

C. M. COLEMAN, JR. VICE PRESIDENT & GENERAL MANAGER

March 20, 1990

REAEIVED MAR 2 6 1990

Mr. C. H. Fancy, P. C., Chief Bureau of Air Regulation Florida Department of Environmental Regulation 2600 Blair Stone Road, Room 338 Tallahassee, Florida 32399-2400

> Re: Amendment of Permit No. AC 27-138850 New Permit No. AC 27-173474

Dear Mr. Fancy:

Florida Mining & Materials submitted an application to amend the referenced Department Air Permit for its Brooksville Cement Plant Kiln No. 2 on December 1, 1989. While the Department did not request any additional information, the Region IV office of the U. S. Environmental Protection Agency commented on the application by letter dated January 10, 1990. We have reviewed Mr. Miller's comment letter and would like to take this opportunity to respond.

The Region IV letter states that the "netting calculation" contained in Florida Mining's application was incorrect, and that the correct calculation "should be proposed allowable emission - existing actual emissions (based on data)." Florida Mining believes the approach set forth in its application is valid under the Department's rules. In an effort to avoid delay in the permitting process, however, our consultant has performed the emission comparisons calculation in the manner suggested by Region IV. Accordingly, please find attached a permit application addendum submitted in response to Region IV's comment letter.

Florida Mining is prepared to accept the "Current Proposed Allowable Emissions" as set forth in Table 3 of the addendum, in the amended construction permit for Kiln No. 2. Theses emission rates ensure that the permit amendment will not result in a significant net emissions increase based on a comparison of past actual emissions (utilizing statistical analysis of historical emissions testing data) and proposed allowable emissions. Please note that Florida Mining has revised the requested annual hours of operation for Kiln No. 2 from

Mr. C. H. Fancy, P. E., Chief March 5, 1990 Page 2

from 8400 hours per year to 8200 hours per year.

In closing, I would emphasize that Florida Mining's decision to revise the application in response to Region IV's comment should not be construed as agreement that other emission comparison approaches are incorrect. In fact, the Region IV approach could penalize a facility that has maintained emission rates lower than those required by permit conditions established to reflect Best Available Control Technology.

Please do not hesitate to call me or Joe Tessitore (404/851-1484) if you or your staff have any questions regarding this submittal.

Sincerely,

C. M. Coleman, Jr.

Vise President and

General Manager

CMC/mmf

Enclosures

cc: John Reynolds
B. Thomas, SWDist.
B. Miller, EPA

RECEIVED MARRE 1990

•

PERMIT APPLICATION ADDENDUM

FLORIDA MINING AND MATERIALS NO. 2 KILN

March 21, 1990

This document is submitted in addendum to the Application to Amend Air Pollution Source Permit, December 1, 1989.

Cross/Tessitore & Associates, P.A. 4763 South Conway Road, Suite F. Orlando, Florida 32812 (407) 851-1484 F03.178/R5108.Doc

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1.0 INTRODUCTION

The analysis provided here is offered in response to comments made by the Region IV Office of the U.S. Environmental Protection Agency on the Application to Amend Air Pollution Source Permit submitted for Florida Mining and Materials No. 2 Kiln, to the Florida Department of Environmental Regulation on December 1, 1989.

These comments focused on calculations included in the application to determine the net annual emissions increases which would result from the proposed permit amendments. In specific, the new annual increases calculated were due to the proposed increase in annual hours of production. For purposes of calculating net increases, it was assumed that current actual emissions are essentially equal to the current permitted allowable emissions in lbs/hr. Comments issued by U.S. EPA, however, indicated that actual emissions should be based on existing operating data. The following analysis, therefore, provides revised calculations to comply with this requirement.

2.0 METHODOLOGY

The first step in revising the previously submitted emissions calculations was to establish values for current actual emissions of each regulated compound. As required, historical operating data was used as a basis for determining these values. Included in Appendix A is a summary of emissions testing results for the No. 2 Kiln. From this data, the mean tested emissions rate was calculated for Particulate, Sulfur Dioxide, and Nitrogen Dioxide (NO_x). The standard deviation was then calculated for each of these three sets of data, according to the following equation:

SD =
$$\frac{(\Sigma (Vi - \overline{V})^{2})^{\frac{1}{2}}}{(n - 1)^{\frac{1}{2}}}$$

Where

SD = Standard Deviation

Vi = Data Point

V = Mean

n = Number of Data Points

The test results included in Appendix A actually represents only a sample of the entire population of operating data which could be obtained. Further, testing is often conducted during only optimum operating conditions. It was, therefore, necessary to adjust the mean tested emission rates to be more representative of actual operating conditions.

It is assumed that, throughout the typical operating year, actual emissions may vary as much as three standard deviations above the mean tested emissions rate for each compound. Therefore, the following equation was used to calculate actual emissions for Particulate, Sulfur Dioxide, and Nitrogen Dioxide (NO_x):

Actual Emissions = \overline{V} + 3(SD)

Sufficient test data was not available for Volatile Organic Compounds and Carbon Monoxide to establish a reliable statistical value for actual emissions. However, calculations which were included in the December 1, 1989 permit application provide a basis for actual emissions rates of these compounds. Table 1 provides a summary of actual emissions for each regulated compound.

The next step in revising the emissions calculations was to determine values for proposed allowable emissions for each compound. Florida Mining and Materials does not wish to propose a net emissions increase which would result in a Prevention of Significant Deterioration (PSD) review. Therefore, Table 2 was developed to calculate the maximum allowable emissions rate for PSD. In this analysis, the following procedures were followed:

- 1) The actual emissions rate for each compound was multiplied by the actual hours of operation in 1989 to determine the annual actual emissions rate in ton/yr.
- 2) This value was then increased by the PSD significant emissions rate to obtain the annual emissions rate allowable for PSD.
- 3) This annual allowable emissions rate was used, along with the proposed operating schedule of 8,200 hrs/yr, to obtain an allowable emissions rate on an hourly basis.

It should be noted that the proposed operating schedule has been reduced from 8,400 hrs/yr in the December 1, 1989 permit application to 8,200 hrs/yr.

Given the values for PSD in Table 2, it was then necessary to establish what levels should be proposed as allowable emissions. This was achieved by using the following criteria:

- 1) For Particulate, Sulfur Dioxide, and Nitrogen Dioxide (NO_x), the allowable emissions for PSD from Table 2 were compared with the current permitted allowable levels. Of these two values, the lesser was selected as the proposed allowable emissions rate.
- 2) For Volatile Organic Compounds and Carbon Monoxide, the actual emissions rate calculated in the December 1, 1989 permit application and listed in Table 1, was established as the proposed allowable emissions rate.

A summary of the proposed allowable emissions for each compound is provided in Table 3. Table 4 presents a revised version of Table III-2, submitted in the December 1, 1989 Permit Application.

TABLE 1
ACTUAL EMISSIONS SUMMARY

	Mean Tested Emissions Rate (lb/hr)	Standard Deviation (lb/hr)	Actual Emissions (lb/hr)
Particulate	7.31	2.75	15.56
Sulfur Dioxide	3.64	2.80	12.03
Nitrogen Dioxide (NO _x)	149.70	32.35	246.76
Volatile Organic Compoun	ds*		7.44 *
Carbon Monoxide*			79.2 *

^{*} Actual emissions for these compounds are based on calculations provided in the December 1, 1989 Permit Application.

TABLE 2

CALCULATED ALLOWABLE EMISSIONS FOR PSD
(Actual Emissions During History of Kiln #2 with Proposed 8200 Hours per Year Operation)

<u>Parameter</u>	Actual Emissions Rate (lb/hr)	1989 Actual Operating Hours (hrs/yr)	Annual Actual Emissions Rate (ton/yr)	PSD Significant Emissions (ton/yr)		vable ons Rate (lb/hr)*	
Particulate	15.56	7892.7	61.41	25	86.41	21.08	
Sulfur Dioxide	12.03	7892.7	47.47	40	87.47	21.33	
Nitrogen Dioxide (NO _x)	246.76	7892.7	973.80	40	1013.80	247.27	
Volatile Organic Compounds	7.44	7892.7	29.36	40	69.36	16.92	
Carbon Monoxide	79.2	7892.7	312.55	100	412.55	100.62	

^{*} Calculated based on proposed schedule of 8200 hours/yr. R5101.DOC

TABLE 4
AIRBORNE EMISSIONS COMPARISON*

	Current Actual Emissions		Allo	oosed wable ssions	Actual Emissions Increase	Significant Net** Increase
Parameter	lb/hr	T/yr_	lb/hr	T/yr	T/yr	T/yr
Particulate	15.56	61.41	21	86.10	24.69	25
Sulfur Dioxide	12.03	47.47	12	49.20	1.73	40
Nitrogen Dioxide (NO _x)	246.76	973.80	247	1012.7	37.92	40
Volatile Organic Compounds	7.44	29.36	7.44	30.50	1.14	40
Carbon Monoxide	79.2	312.55	79.2	324.72	12.17	100

^{*} Revised from Table III-2 in the December 1, 1989 Permit Application.

^{**} Based on PSD significance criteria.

TABLE 3
PROPOSED ALLOWABLE EMISSIONS

	Current Proposed Allowable Emissions (lb/hr)	Previous Proposed ⁽³⁾ Allowable Emissions (lb/hr)
Particulate	21 (1)	21.6
Sulfur Dioxide	12 (2)	12.0
Nitrogen Dioxide (NO _x)	247 (1)	244.0
Volatile Organic Compounds	7.44 (3)	7.44
Carbon Monoxide	79.2 (3)	79.2

- (1) Calculated based on actual emissions rate, PSD significant emissions rate, and a proposed operating schedule of 8,200 hrs/yr.
- (2) Based on current permit limit.
- (3) As proposed in December 1, 1989 Permit Application. R5101.Doc

APPENDIX A OPERATING DATA

TABLE A-1
EMISSIONS TESTING SUMMARY 1
NO. 2 KILN

Testing	Kiln Feed	Gas Flo		Stack Temp.	Particulate E	
Date	(ton/hr)	(ACFM)	(SCFM)	(°F)	(gr/dscf)	(lb/hr)
00/02/02	110		145 504	0.05	0.0055	
09/23/82	112	227,458	145,524	265	0.0055	6.5
10/11/82	108	225,887	147,768	249	N/A	N/A
04/16/84	111	228,166	153,810	223	0.0065	8.66
04/22/85	113	219,461	143,475	268	0.0111	13.47
04/28/86	120	217,356	148,696	231	0.0048	6.15
08/20/86	120	N/A	148,033	N/A	N/A	N/A
04/13/87	129	210,073	143,723	234	0.0031	3.83
09/23/87	120.1	220,836	149,441	234	N/A	N/A
03/28/88	124	227,058	179,642	230	0.0036	4.8
06/29/88	122.5	235,856	161,250	229	N/A	N/A
05/22/89	120	273,638	177,707	281	0.0052	7.83
05/23/89	138.5	268,282	174,255	269	0.004686	7.00
10/17/89 through 10/19/89 R5101.DOC	118.2	287,684	188,945	270	0.00468	7.51

TABLE A-2 EMISSIONS TESTING SUMMARY 2 NO. 2 KILN

Testing Date	Sulfur Dioxide Emissions (lb/hr)	Nitrogen Oxide (NO _x) Emissions (lb/hr)	Volatile Organic Compounds Emissions (lb/hr)	Carbon Monoxide Emissions (lb/hr)
09/23/82	N/A	74.75	N/A	N/A
10/11/82	3.6*	N/A	N/A	N/A
04/16/84	4.63	141.2	N/A	N/A
04/22/85	9.53	128.4	N/A	N/A
04/28/86	2.4	N/A	N/A	N/A
08/20/86	N/D	111.9	N/A	N/A
04/13/87	4.77	172.81	N/A	N/A
09/23/87	N/D	N/A	N/A	N/A
03/28/88	N/D	N/A	N/A	N/A
06/29/88	N/A	117	N/A	N/A
05/22/89	1.98	127.2	N/A	N/A
05/23/89	1.61	181.8	N/A	44.8
10/17/89 through 10/19/89	0.566**	135	4.5	37.4

9 .

Discarding Run No. 3 (Raw Mill down), average measured emissions = 1.00 lb/hr Value represents average of three runs. Data for this test date previously submitted in December 1, 1989 Permit Application represented only test runs conducted while raw mill was down. R5101.DOC



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

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

JAN 1 0 1990

4APT-APB-cdw

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JAN 12 1990

DER - BAOM

Ms. Patricia G. Adams Planner Bureau of Air Quality Management Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

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

Dear Ms. Adams:

This is to acknowledge receipt of the application for a proposed amendment to the above referenced permit dated December 7, 1989. discussed between Mr. Barry Andrews of FDER and Mr. Gregg Worley of my staff on January 8, 1990, we have the following comment.

The netting calculation performed by the applicant was incorrect. The applicant used permitted allowable emissions as actual emissions rather than using existing emissions based on the previous two years of operating data. The correct calculation should be proposed allowable emissions-existing actual emissions (based on data).

The emissions changes should be evaluated correctly to determine whether the proposed change is significant for any pollutant.

Thank you for the opportunity to review this package. Any questions or comments may be directed to Mr. Gregg Worley of my staff at (404) 347-2864.

Sincerely yours,

Bruce P. Miller, Chief Air Programs Branch

Air, Pesticides, and Toxics

Management Division

copied: J. Reynoldo

B. andrews C. Holladay B. Shomae, 5w Dist. CHF/BT



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

December 7, 1989

Mr. Wayne Aronson, Chief Program Support Section U.S. EPA, Region IV 345 Courtland Street, N.E. Atlanta, Georgia 30365

Dear Mr. Aronson:

RE: Florida Mining & Materials Permit Amendment

PSD-FL-124

Enclosed for your review and comment is the above referenced PSD permit amendment request. If you have any comments or questions, please contact John Reynolds at the above address or at (904)488-1344.

Sincerely,

Patricia G. Adams

Planner

Bureau of Air Regulation

Patricia G. adams

/pa

Enclosure



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary Dr. Richard Garrity, Deputy Assistant Secretary

November 21, 1989

RECEIVED

NOV 27 1989

DER - BAQM

Cross/Tessitore & Associates 4763 South Conway Road Suite F

Mr. Joseph L. Tessitore

Orlando, FL 32812

Vice President

Dear Mr. Tessitore:

Florida Mining & Materials Kiln No. 2 Permit AC27-138850

In your letter of November 3, 1987 you requested permission to use Flotite as required and to operate on occasions without the raw mill in order to develop operating parameters pursuant to submittal of an application for modification of the above referenced construction permit.

As you know we cannot authorize you to operate in a manner that is not consistent with your construction permit. However, it is possible that a test plan describing the parameters, schedule and duration can be approved.

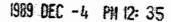
If you still wish to proceed with the described test, please submit a justifiable test plan along with available backup information.

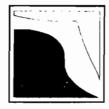
Sincerely,

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

JHK/mbq

Bill Thomas, Tampa Clair Fancy /





FLORIDA MINING & MATERIALS

CONSTRUCTION MATERIALS DIVISION

P. O. BOX 6, BROOKSVILLE, FLORIDA 34605-0006 TELEPHONE (904) 796-7241

C. M. COLEMAN, JR.
VICE PRESIDENT & GENERAL MANAGER

November 29, 1989

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

Dear Mr. Fancy:

Enclosed is an application to amend the existing construction permit for Florida Mining & Materials' number two kiln at its Brooksville, Florida cement plant. The amendments are requested in order to allow this kiln to operate at maximum efficiency, with slightly higher clinker production rates.

Stack test data shows that the kiln is operating in compliance with the permit's hourly emission limits for sulfur dioxide, nitrogen dioxide and particulates. Therefore, no changes are requested in the currently permitted hourly emission rates of those pollutants. The application includes a request for increased hourly emission levels for carbon monoxide and total hydrocarbons, to accurately reflect both current operating practices and operating at increased production rates. Increases in these two parameters are explained in the text of the application.

Please note that none of the amendments requested herein pertain to Florida Mining's proposal to burn waste fuels. Florida Mining requests these amendments to reflect operations with coal and conventional fuel and to enable the plant to step up production to meet the increased demand in the market.

Sincerely,

. M. Coleman, Jr.

Vice President and General Manager

CMC, Jr:gm Enclosure

FLORIDA MINING & MATERIALS

4438

CEMENT DIVISION ... P O BOX 6 BROOKSVILLE, FL 34605-0006

November 30,

PAY TO THE ORDER OF __

Florida Department of Environmental Regulation

\$1,000.00



Sun Bank and Trust Company Brooksville Office P.O. Box 155 Brooksville, FL 34605-0156

Modification Air Permit

PETTY CASH ACCOUNT

APPLICATION TO AMEND AIR POLLUTION SOURCE PERMIT

FLORIDA MINING AND MATERIALS NO. 2 KILN

December 1, 1989

Volume I

Cross/Tessitore & Associates 4763 South Conway Road, Suite F. Orlando, Florida 32812 (407) 851-1484 F03.178/R5092.Doc

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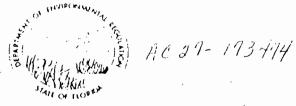
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DEPARTIMETER OF

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#1,000 pd. Rept. #117680

I

DEC 4 1989	ON HOS
DER ABAGMTION TO OPERATE/O	CONSTRUCT AIR POLLUTION SOURCES
SOURCE TYPE: Portland Cement Plant	[] New ¹ [X] Existing ¹
APPLICATION TYPE: "[] Construction [] (Operation [X] Modification
COMPANY NAME: Florida Mining and Material	s COUNTY: Hernando
Identify the specific emission point source	ce(s) addressed in this application (i.e. Lime
Kiln No. 4 with Venturi Scrubber; Peaking	Unit No. 2, Gas Fired) No. 2 Cement Kiln
SOURCE LOCATION: Street U.S. Highway 98	City NW of Brooksville
UTM: East 17-356.00	North 3169.89
	34"N Longitude 82 ° 28' 25"W
APPLICANT NAME AND TITLE: C.M. Coleman, Jr	., Vice President
APPLICANT ADDRESS: P.O. Box 6, Brooksville	, Florida 34605-0006
SECTION I: STATEMENT	S BY APPLICANT AND ENGINEER
A. APPLICANT	
I am the undersigned owner or authoriz	ed representative* of Florida Mining & Materials
I agree to maintain and operate the facilities in such a manner as to constatutes, and all the rules and regulation also understand that a permit, if gra	this application for a Modification to the best of my knowledge and belief. Further pollution control source and pollution control mply with the provision of Chapter 403, Floridations of the department and revisions thereof, need by the department, will be non-consferable and upon sale or legal transfer of the permitted
*Attach letter of authorization	Signed: Willow
	C.M. Coleman, Jr., Vice President Name and Title (Please Type)
	Date: 11/15/89 Telephone No. (904) 796-7241
B. PROFESSIONAL ENGINEER REGISTERED IN FL	ORIDA (where required by Chapter 471 F.S.)

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

 $^{-1}$ See Florida Administrative Code Rule 17-2.100(57) and (104)

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

Page 1 of 12

an effluent that complies with a rules and regulations of the dep furnish, if authorized by the or	s, when properly maintained and operated, will discharge all applicable statutes of the State of Florida and the partment. It is also agreed that the undersigned will oner, the applicant a set of instructions for the proper expollution control facilities and, if applicable,
of the state of th	Signed Joseph L Territor
744	Joseph L. Pessitore, P.E. Name (Please Type)
Control of	
~~	Cross/Tessitore & Associates, P.A. Company Name (Please Type)
1	4763 South Conway Road, Orlando, FL 32812
	Malling Address (Please Type)
1 rida Registration No. 23374	Date: 12/1/59 Telephone No. (407) 851-1484
SECTION II	GENERAL PROJECT INFORMATION
and expected improvements in sou	of the project. Refer to pollution control equipment, orce performance as a result of installation. State in full compliance. Attach additional sheet if
See Suppleme	ntal Information: Section II
in the state of th	
\$	
	· · · · · · · · · · · · · · · · · · ·
. Schedule of project covered in t	his application (Construction Parmit Application Only)
Start of Construction	Completion of Construction
for individual components/units Information on actual costs shall permit.) The following informat:	em(s): (Note: Show breakdown of estimated costs only of the project serving pollution control purposes. I be furnished with the application for operation ion represents the initial costs associated with the existic air pollution control equipment will be required for the
Baghouse Equipment	\$2,825,000.00
Erection	\$2,800,000.00
TOTAL	\$5,625,000.00
. Indicate any previous DER permit point, including permit issuence	s, orders and notices associated with the emission and expiration dates.
See Supplemen	ntal Information: Section II
	•
TR Form 17-1.202(1) [foctive October 31, 1982	Page 2 of 12

this is a new source or major modification, answer the following questes or No.)	tions.
. Is this source in a non-attainment area for a particular pollutant?	NO
a. If yes, has "offset" been applied?	
b. If yes, has "Lowest Achievable Emission Rate" been applied?	
c. If yes, list non-attainment pollutants.	·
. Does best available control technology (BACI) apply to this source? If yes, see Section VI.	YES 1
. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	YES 2
Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	YES
Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	NO
o "Rensonably Available Control Technology" (RACT) requirements apply this source?	МО
a. If yes, for what pollutants?	
b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.	

All supportive data is included in the Supplemental

Information Sections of this Application.

- 1 BACT has been determined for particulate emissions under the previous Permit AC 27-30450; BACT has been determined for Sulfur Dioxide and Nitrogen Dioxide (NOx) under the previous Permit AC 27-138850. No BACT review was required for Carbon Monoxide and volatile organic compound emissions.
- 2 PSD compliance for particulate, Sulfur Dioxide and Nitrogen Dioxide (NOx) was established under previous Permit AC 27-138850 (PSD-FL-124).

7 Form 17-1.202(1) fective October 31, 1982

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

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

7. 	Contar	Contaminants			
Oescription —	Гуре	% Wt Rate - 1be/h		Relate to Flow Diagram	
mestone	Particulate	0.02	207,640		
and/Clay	Particulate	0.08	20,774	SEE SUPPLEMENTAL	
liy Ash	Particulate	0.14	26,182	INFORMATION: SECTION V	
aurolite	Particulate	1.40	2,704	FIGURE V-1	
Mill Scale	Particulate	1.40	2,704		

٠.	LIDGAR MACA, IL B	phircanter (300 300CLOW V, ACOM I)			
ئو: ا	l Intel Process	Innut Bate (1)	ha/hr): 260.000	130 TPH	VS 120 10H	9 %

2. Product Weight (160/hr): 159,250 79.6 194 Js. 73.5 TPH

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

Name of	Emiso	lon ¹	Allowed ² Emission Rate per	Allowable ³ Emission	Potenti Emissi		Relate to Flow
Contaminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbe/hr	lbs/hr	T/yr	Diagram
- 13				·.			
	SEE SUPPLI	EMENTAL I	NFORMATION:	SECTION III,	TABLE III-1		
1				-			
·				,		<u> </u>	

¹ See Section V, Item 2.

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

I alculated from operating rate and applicable atandard.

⁴Eminaton, if anurem operated without control (See Section V, Item J).

⁵ R Form 17-1.202(1)
Treative Hovember 30, 1902

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Fuller Reverse Air	Particulate	99.9%	0-60	Testing
(Variable Cycle)				
1 .				
,				

. | Fuels

	Consu	mption*			
Type (Be Specific)	avg/hr max./hr		Maximum Heat Input (MMBTU/hr)		
Caal 17,2,117(2) 527	20,640 lb/hr	24,000 1b/hr 20% income	300 US 250		
le olite *	1,779 gal/hr	2,069 gal/hr	300		
: 明 : 44 :					

20%

Units: Natural GasMMCF/hr	; Fuel Oilsgall	ons/hr; Coal,	wood, refuse, othe	rlbs/hr.
Anaiysis: See Supplemer	ntal Information:	Section III, 7	Tables III-2 and II	II-3.
ercent Sulfur:		Percent Ash:		
esity:	lbs/gal	Typical Perc	ent Nitrogen:	
रक्रूंt Capacity:	Bru/16			BTU/gel
ther Fuel Contaminants (whi	ch may cause air	pollution):		
			·	
. If applicable, indicate	the percent of fu	el used for sp	ace heating.	
- ual Average	. н	aximum		

Indicate liquid or solid wastes generated and method of disposal.

Solids collected from the fabric filter during normal operation will be returned to the kiln feed and recycled through the system.

Form 17-1.202(1)

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To be used during start-up of kiln operations and during periods when raw materials feed is stopped and kiln temperature must be maintained.

tmission tack Height							r:	each stack):	ft
as Flow Rat	300,0							~386	• F
uter Vapor	Content:	~10		%	Velocity	:	24.87		FP
		SECT	ION IV:	INCINER	ATOR INFO	RMATI	ON N/A		
		Type I (Rubbish)				olog-		Type VI s (Solid By-p	
Actual lb/hr nciner- ated				·					
Uncon- trolled lbs/hr)				••					
nufacturer								wks/yr	
ite Constru	ucted			Mod	el No				
		Volume (ft) ³	Heat R (BTU		Туре	Fuel	BTU/hr	Temperatur (°F)	e
rimery Cha	ımber								
econdary (Chamber	• • •							
ack Height		ft. !	Stack Dia	mter: _			Stack	Temp	
s Flow Rat	e:		_ACFM			FM*	Velocity:		F
f 50 or mo						eeime	ions rate	in grains per	star
pe of poll	lution conf	trol devic	e: [] C	yclone	[] Wet S	crub	ber [] A	fterburner	
			[] 0	ther (s	pecify)				
R Form 17-	1.202(1) ovember 30,	. 1982		Page 6 o	of 12				

	 									
	 		·							
timate h, etc.	ofany	effluent	other	then	that	emitted	from	the stack	(scrubber	water
	-									

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

SECTION V: SUPPLEHENTAL REQUIREMENTS

See Supplemental Information: Section V Please provide the following supplements where required for this application.

Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]

- In 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.
- 7. 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 (l-efficiency).
- 6. An B 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 airborns particles are evolved and where finished products are obtained.
 - 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 atructures and roadways (Example: Copy of relevant portion of USGS topographic map).
 - An 0 1/2" x 11" plot plan of facility showing the location of manufacturing processes and autlets for sirborne emissions. Relate all flows to the flow diagram.

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5	The appropriate application fee in accormade payable to the Department of Environ	dance with Rula 17-4.05. The check should be nmental Regulation.
10.		, attach a Certificate of Completion of Con- as constructed as shown in the construction
A .		ABLE CONTROL TECHNOLOGY N/A n Permit AC 27-138850 and Previous Permit AC 27-3045 tionary sources pursuant to 40°C.F.R. Part 60-3045
3	[] Yes [] No	
- Park	Contaminant	Rate or Concentration
	-	
 В.	Has EPA declared the best symilable contyes, attach copy)	trol technology for this class of sources (If
	[] Yes [] No	
新門	Contaminant	Rate or Concentration
- Starting		,
- 1. Pr.	<u> </u>	·
c.	What emission levels do you propose as be	est available control technology?
- Andrews	Contaminant	Rate or Concentration
. :		
n ;	Describe the existing control and treatme	ent technology (if any).
ì	1. Control Device/System:	2. Operating Principles:
	3. Efficiency: *	4. Empital Conta:
: Ľx	plain method of determining	
~ Ţ. R	Form 17-1.202(1)	8 of 12

	5.	Useful Life:		6.	Operating Costs:	
1	7.	Energy:		8.	Maintenance Cost:	
	9.	Emissions:				
الدر دور الدور الد		Contaminant			Rate or Concentratio	n
int str	_					
<u> </u>		·				
Ť	10.	Stack Parameters				
	а.	Height:	rt.	Ь.	Diameter: .	ft.
	с.	Flow Rate:	ACFM	d.	Temperature:	۰۶.
<u> </u>	е.	Velocity:	FPS			
E.		cribe the control and t additional pages if nec		olog	y available (As many types a	s applicable
1900 1900 1900	1.					
(H) (L)	·a.	Control Device:		b.	Operating Principles:	
	с.	Efficiency: 1		d.	Capital Cost:	
1	е.	Useful Life:		ſ.	Operating Cost:	
!	g.	Energy: ²		h.	Maintenance Cost:	·
	i.	Availability of constru	ection material	s an	d process chemicals:	
	j.	Applicability to manufa	acturing proces	ses:		
Section with the	k.	Ability to construct w within proposed levels:		vice	, install in available space	, and operat
	2.					
	8.	Control Device:	2	ь.	Operating Principles:	
1	c.	Efficiency: 1		d.	Capital Cost:	
	е.	Useful Life:		ſ.	Operating Coat:	
	g.	Energy: ²		h.	Maintenance Cost:	
	ï.	Availability of constru	ection material	n an	d process chemicals:	
1 E :	xplai nergy	n method of determining to be reported in units	efficiency. For electrical	ром	er - KWH design rate.	
		m 17-1.202(1)	0 a s -	9 - 6		

Applicability to manufacturing processes: j. Ability to construct with control device, install in available space, and operate k. within proposed levels: 3. Control Device: Operating Principles: 8. Efficiency: 1 Capital Cost: d. c. Useful Life: Operating Cost: е. Energy: 2 g. Maintenance Cost: Availability of construction materials and process chemicals: i. Applicability to manufacturing processes: j. Ability to construct with control device, install in available space, and operate k. within proposed levels: 4. Control Device: Operating Principles: в. Efficiency: 1 Capital Costs: c. Useful Life: Operating Cost: e. Energy: 2 Maintenance Cost: g. Availability of construction materials and process chemicals: Applicability to manufacturing processes: j. Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: Efficiency: 1 Control Device: 2. 3. Capital Cost: Useful Life: Energy: 2 Operating Cost: Maintenance Cost: Manufacturer: Other locations where employed on similar processes: (1) Company: (2) Mailing Address: (3) City: (4) State: explain method of determining efficiency. 'inergy to be reported in units of electrical power - KWH design rate. DER Form 17-1.202(1) factive November 30, 1982 Page 10 of 12

1000

(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions:1	
Contaminant	Rate or Concentration
· · ·	
(8) Process Rate: 1	
b. (1) Company:	
η (2) Mailing Address:	
(3) City:	(4) State:
(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Contaminant	Rate or Concentration
<u> </u>	s of the same of
	·
BRACE CONTRACTOR OF THE PROPERTY OF THE PROPER	
(8) Process Rate: 1	
10. Reason for selection and	description of systems:
Applicant must provide this inf available, applicant must state	ormstion when available. Should this information not b the reason(s) why.
SECTION VII -	PREVENTION OF SIGNIFICANT DETERIORATION N/A
4. Company Monitored Data	
, lno. sites	TSP () SO ² * Wind spd/dir
Period of Monitoring	month day year month day year
Other data recorded	
Attach all data or statistica	l nummaries to this application.
∂Specify bubbler (B) or continuou	s (C).
DER Form 17-1.202(1)	•-•
Ffective November 30, 1982	Page 11 of 12

, '	2. Instrumentation, Field a	nd Laboratory								
	a. Was instrumentation EPA	referenced or its equivalent? [] Yes [] No								
	b. Was instrumentation cali	brated in accordance with Department procedures?								
1	[] Yes [] No [] Unk	nown								
B.	Meteorological Data Used for	Air Quality Modeling								
in price - chie	1. 5 Year(s) of data fr	om 0 / 01/70 to 02 / 08 / 74 month day year								
	2. Surface data obtained fr	om (location) Tampa/Station No. 12842								
	3. Upper air (mixing height	3. Upper air (mixing height) data obtained from (location)*								
	4. Stability wind rose (STA	R) data obtained from (location)*								
c.	Computer Models Used	·								
i	1. <u>Industrial Source Comple</u>	x - Short Term Modified? If yes, attach description.								
ţ	2.	Modified? If yes, sttach description.								
:	3.	Modified? If yes, attach description.								
,	4.	Modified? If yes, attach description.								
***************************************	Attach copies of all final m	odel runs showing input data, receptor locations, and prin								
	Applicants Maximum Allowable	Emission Data								
	Pollutant	Emission Rate								
4.	TSP	grams/sec								
ř	S 0 ²	grams/sec								
E	Emission Data Used in Modeli	ıg								
, 124 m		ces. Emission data required is source name, description o number), UTM coordinates, stack data, allowable emissions								
Γ.	Attach all other information	supportive to the PSD review.								
C :		mic impact of the selected technology versus other applicates, payroll, production, taxes, energy, etc.). Including tal impact of the sources.								
;		ng, and technical material, reports, publications, jour- levant information describing the theory and application o control technology.								
:	* For Complete output li Section VII	sting and modeling parameters see Supplemental Information:								
	Form 17-1.202(1) ective November 30, 1982	Page 12 of 12								

SUPPLEMENTAL INFORMATION: SECTION II

- 1. Project Description
- 2. Table II-1 Permitting and Compliance Activities

SECTION II

PROJECT DESCRIPTION

The subject of this Permit Application is the revision of Florida Mining and Materials' (FM&M) current construction permit for the No. 2 Kiln (Source E-19). This application does not involve any physical modifications to the kiln. Rather, these permit amendments are requested to enable FM&M to operate at a higher rate of production to meet the market's increasing demands for cement, and to improve the efficiency of the operation. The change for the CO limit is proposed so that the parameter will cover all the CO emissions from the kiln, not merely those that result from burning coal.

The requested revisions to the permit include the following: 1) An increase in the permitted clinker production rate; 2) An increase in the permitted coal consumption rate; 3) An increase in the permitted maximum annual hours of operation; 4) The use of Flolite (a refined oil product) during start-up of the kiln; 5) Operation of the kiln without the raw mill; 6) Increases in the <u>annual</u> emissions for SO_2 and NO_x (the kiln is operating in compliance with the <u>hourly</u> emissions limits, but the increase in the number of operating hours will result in higher annual emissions); 7) increases in the permit's limits for emissions of CO and VOC's.

The permit's current CO limit is based solely on EPA's AP-42 emissions factor for coal combustion sources. The kiln exit gases, however, also contain non-combustion related CO that is generated in the process from the chemical reactions that occur in the calcination of calcium carbonate in the kiln. Therefore, stack testing and monitoring cannot accurately determine compliance with only the combustion source limit. For that reason, a revised CO limit is proposed to accurately reflect the CO that is generated from both coal combustion and the process. In addition, the proposed CO limit includes adjustments based on operations at the higher operating hours limit.

The revised CO limit would include an <u>actual</u> emissions increase of 15.3 tpy from combustion sources, reflecting the increased operating hours and increased coal feed rate. Except for that incremental increase, the proposed higher limit would reflect the kiln's current CO emissions from <u>both</u> coal combustion and the process. The actual emissions increase resulting from increased coal consumption and greater hours of operation is, therefore, well below the 100 tpy significance threshold.

The VOC limit included in the application is based on EPA's proposed limit for industrial furnaces and is representative of good operating practices. The proposed increase in VOC limit would result in an actual annual increase of 20.6 tons of emissions, which is significantly less than the significance threshold of 40 tpy for VOC's

Estimated emissions resulting from these source revisions and relating to the current Permit Number AC27-138850, are detailed in the supporting information for Sections III and V of this Application. The baghouse currently operated with

the No. 2 Kiln will remain as the air pollution control device, thus continuing to provide Best Available Control Technology (BACT), as previously determined.

The current permit for the No. 2 Kiln specifically prohibits kiln operation when the raw mill is down. This prohibition was based on the fact that the raw mill, which receives the hot kiln exhaust gases prior to the baghouse, provides some additional scrubbing for the removal of acid gases. This was especially critical during the operation under Permit A027-65207 which limited the SO₂ emissions from the kiln to 3 pounds per hour. However, the recent permit allows SO₂ emissions of 12 pounds per hour and the dependence on the raw mill scrubbing is no longer critical. Test results, provided in Exhibit V-1, show that SO₂ and NO_x emissions do not exceed the current allowable levels while the raw mill is down.

Further, in order to optimize the kiln productivity, it is necessary to operate the kiln when feed is available but the raw mill is inoperative due to maintenance and/or insufficient feed storage capacity. For these reasons a revision of the permit conditions is requested to allow kiln operation while the raw mill is down. A summary of the proposed permit revisions is provided below.

	Parameter	Curre	nt Limit	Propose	Proposed Limit		
1)	Production Rate	120	T/hr	130	T/hr		
2)	Coal Consumption Rate	10.5	T/hr	12	T/hr		
3)	Operating Hours	7,896	hr/yr	8,400	hr/yr		
4)	Raw Mill	Up		Up,	/Down		
5)	Flolite * (Equivalent to No. 5 Oil Specification)			*250	hr/yr		
6)	Carbon Monoxide	8.9	lb/hr	79.2	lb/hr		
7)	Volatile Organic Compounds	2.7	lb/hr	7.4	lb/hr		

^{*} Used only during start-up of kiln operations and during periods when raw materials feed is stopped and kiln temperature must be maintained. Annual usage hours are approximate.

TABLE II-1
PERMITTING AND COMPLIANCE ACTIVITIES

Activity	Number	Issued	Expired
Construction Permit	AC27-30450	July 25, 1980	December 31, 1983
Operating Permit	A027-65207	August 16, 1983	August 16, 1988
Consent Order	OGC-86-1471	January 23, 1987	
Consent Order	OGC-87-1685	September 1, 1988	
Construction Permit	AC27-138850	November 3, 1988	January 1, 1990

SUPPLEMENTAL INFORMATION: SECTION III

1.	Table III-1	Regulated Air Pollutant Summary
2.	Table III-2	Airborne Contaminants Emitted
3.	Table III-3	Fuels Summary
4.	Table III-4	Fuels Data
5	Evhibit III-1	Flolite Manufacturer's Data

TABLE III-1
AIRBORNE EMISSIONS SUMMARY

		Allowable	Allowed Emission Rate	Current Allowable	Potential I	<u>Emissions</u>	Relate to ⁽¹⁾
Parameter	lbs/hr	T/yr	Per Rule 17-2	Emissions lbs/hr	lbs/hr	T/yr	Flow <u>Diagram</u>
Particulate	21.6	90.72	N/A ⁽²⁾	21.6	21.6	90.72	E-19
Sulfur Dioxide	12.0	50.4	N/A ⁽³⁾	12.0	12	50.4	E-19
Nitrogen Dioxide (NO _X)	244.0	1025	N/A ⁽³⁾	250	244.0	1025	E-19
Volatile Organic Compounds	7.44	31.3	N/A ⁽⁴⁾	2.7	7.44	31.3	E-19
Carbon Monoxide	79.2	332.6	N/A ⁽⁴⁾	8.9	79.2	332.6	E-19
Opacity	10 %		Rule 17-2.660	20 %	10 %		E-19

⁽¹⁾ See Figure V-6.

⁽²⁾ Allowable emissions for particulate were established by BACT determination as stated in original Construction Permit AC27-30450.

⁽³⁾ Allowable emissions for these compounds have been previously established by BACT determination as stated in existing Construction Permit AC 27-138850.

⁽⁴⁾ Current limits for these compounds have been previously established under the original Construction Permit AC 27-30450.

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	Po	rrent Achack ermit owable		pposed owable	Actual Emissions Increase	Significant Net** Increase
Parameter	lb/hr	T/yr ∨	lb/hr	T/yr	T/yr	T/yr
Particulate	21.6	85.3	21.6	90.72	5.42	25
Sulfur Dioxide	12.0	47.4	12.0	50.4	3.0	40
Nitrogen Dioxide (NO _x)	250.0	987.0	244.0	1025	38	40
Volatile Organic Compounds	2.7	10.7	7.44	31.3	20.6	. 40
Carbon Monoxide	8.9	35.1	79.2	332.6	52.7 *	100

See Calculations included in Supplemental Information: Section V of this application. Emissions of Carbon Monoxide from the process source which have not previously been considered are not included as an emissions increase.

^{**} Based on PSD significance criteria.

TABLE III-3 FUELS SUMMARY

Fuel Type	Const Avg./hr	umption <u>Max./hr</u>	Maximum Heat Input (Btu/hr)
Coal	20,640 lb/hr	24,000 lb/hr	3.0×10^8
Flolite(1)	1,779 lb/hr	2,069 lb/hr	3.0 x 10 ⁸

⁽¹⁾ Flolite will only be used during start-up of kiln operations and during periods when raw materials feed is stopped and kiln temperature must be maintained, and flolite is normally used only as a substitute for coal. In cases where flolite and coal are used cocurrently, the maximum heat input rate will not exceed 3.0 x 108 Btu/hr.

TABLE III-4 ADDITIONAL FUELS DATA

Fuel Type	Heat Capacity	Sulfur Content	
Coal	12,500 Btu/lb	1.0 %	
Flolite	145,000 Btu/gal	1.0 %	

EXHIBIT III-1 FLOLITE MANUFACTURER'S DATA

Flolite is a blend of "on-specification" re-refined oil and virgin fuel oils which has the physical characteristics of #5 oil. Flolite will only be used during start-up of kiln operations and during periods when raw materials feed is stopped and kiln temperature must be maintained.

The precise formulation of Flolite is proprietary information of the International Petroleum Corporation (IPC); however, virgin fuel normally constitutes less than 50% of the blended product. The following items are presented as Flolite specifications:

- A release from the Federal EPA which states their position that IPC's finished product is equivalent to virgin fuel oil.
- A copy of a certified analysis which is indicative of IPC's typical specifications for finished product.
- A copy of the Department of Environmental Regulation's approval for use of IPC's Flolite.

EXHIBIT III-1

Page 1 of 5



Florida Department of Environmental Regulation

Their Towers Office fileg. • 2600 Blair Stone Road • Rellahassee, Florich 32399-2400

Bob Martinez, Governor Dalo Towchunano, Secretary John Shearer, Assistant Secretary

January 23, 1989

Mr. A. M. Malatino, President International Environmental Services, Inc. 105 S. Alexander Street Plant City, Florida 33566

Dear Mr. Malatino:

In reference to the analysis (enclosed) on the re-refined oil submitted on January 13, I do not have any objections to the use of this product as a phosphate flutation oil.

Phosphate companies using this re-refined oil annually would not be required to register with the Department as a used oil collection and recycling facility. Also, annual reports and recordkeeping would not be required of them.

If you have any further questions or comments, please let me know.

Sincerely,

David H. Kelley

Environmental Specialist Dureau of Waste Planning

David H. Kelley

and Regulation

DHK/ps

Emolosure

cc: Clabe Polk

EXHIBIT III-1

Page 2 of 5

INTERNATIONAL ENVIRONMENTAL SERVICES, INC.



105 South Alexander St. . Plant City, Florida 33586 . (813) 754-2373 Thropa (813) 229-0870 . Miami Oillo. 1-800-637-9076 . FAX (813) 754-3709 Florida Wals 1-800-762-1104

CERTIFIED ANALYSIS

TO: INTERNATIONAL ENVIRONMENTAL SERVICES PROJECT NO. IES #5 OIL

ATTN: MR. TONY MALATINO

105 SOUTH ALEXANDER STREET

PLANT CITY, FL.

SAMPLED BY: IES

DATE COLLECTED: 1-04-89

IDENTIFICATION: RE-REFINED OIL DATE COMPLETED: 1-10-89

API GRAVITY AT GO DEGREES F 25-28 0.50% BULFUR VISCOSITY GGU AT 100 DEGREES F 240 O DEGREES F POUR POINT, DEGREES F abphaltines <1.0% BEDIMENT BY EXTRACTION TRACE WATER BY DISTILLATION 4 TRACE TOTAL BOTTOM BEDIMENT AND WATER 1.0% MAX CADHIUM PPM <0.3 <5.0 LEAD PPM (LEACHABLE) BY E. P. TOXICITY ARSENIC PPM <1.0 <1.3 CHRONIUM PPM BDL* POLYCHLORINATED BIPHENYLS (FCB'8) 150 DEGREES MIN PLASHPOINT

BELOW DETECTION LIMIT (1.0 PPM)

Tooulla expressed in	[] mg/l (ppin)	vg/l (ppb)	Cortilled by Lord Steering Married
		ופפפו מאלטטי ו. ו	

iblate of Florida Certification: E84160 and HRS 84308

MATHODE

"Standard Methods for the Examination of Water and Westernior", Latest Edition, APHA, AWYA, and WPCF pixtles other EPA approved methods which most FDEA protocol, units otherwise designators.

Quality Assurance Project Plan No. 8703190. LONTHOS YTIJADA Quality Assurance Quality Control No. 87319Q

01

EXHIBIT III-1

Page 3 of 5

NOTE NEXT TO LAST PARAGRAPHS

INFORMATION DULLETIN FOR PUBLIC RELEASE: EPA CONCERNS ABOUT THE USED OIL RECYCLING SYSTEM

The Environmental Protection Agency (EPA) is becoming increasingly concerned about disruptions in the used oil recycling system that are occurring because of the fall in virgin fuel oil prices and because of misunderstanding and confusion about EPA's regulations.

There are only a few presently effective requirements for used oil management. Used oil generators should not mix spent solvents with used oils. These mixtures must be managed as hazardous wastes. Used oil fuel dealers must register with EPA. They may sell off-specification used oil fuels (used oil fuels with high metals concentrations) only to industrial burners. On-specification used oil fuels may be sold to anyone. Off-specification used oil burners must register with the Agency.

Background

In 1980 and 1984 Amendments to the Resource Conservation and Recovery Act (RCRA), Congress directed EPA to consider regulating, used oils to protect human health and the environment. At the same time, however, EPA must consider the impacts of regulations on used oil recycling, on small businesses, and small generators. EPA has divided the used oil regulatory program into three stages.

- (1) EPA has begun regulation of used oil recycling with a rule to
 - discourage mixing hazardous wastes, such as spent solvents, into used oils; and
 - * ban the combustion of used oil fuels with high metals concentrations in non-industrial facilities, such as schools and apartments.

This rule was proposed on January 11, 1985; promulgated on November 29, 1985; and became fully effective on May 29, 1986.

- 20 We have also begun the next stage-of regulating the used old system with the proposed listing and management standards published on November 29, 1985. EPA is now evaluating the many public comments received in response to this notice (and a supplementary March 10, 1986 notice). We expect to make final decision this fall. These final rules will be effective six months after publication.
- devices that burn used oil fuels with high metals content. The rules are expected to be proposed this fall, at the earliest. Final decisions should be completed by the end of 1987. Again, final rules will be effective alx months after that.

EXHIBIT III-1

Page 4 of 5

Current Problems

There are two major problems in the used oil recycling system. First, generators are confused about the status of used oil. Many are surprised that they often must pay to have used oil hauled away. Second, industrial burners are confused about the status of used oil. Many have stopped burning used oil.

Used Oil Generators

Used oil is commonly produced from engine, machine, and vehicle maintenance. Used oils are typically recycled -- usually as fuel, either on-site or after sale to used oil collectors. In the past, generators were paid as much as forty cents per gallon for used oil (in mid-1985, twenty cents per gallon was most typical). The price paid to generators was high because virgin fuel prices were high. The recent fall in virgin fuel prices has depressed used oil prices. Because of this, some generators are now paying for used oil pickups.

The only Federal rule that currently applies to used oil generators is the prohibition on mixing hazardous wastes, such as spent solvents, with used oil. The resulting mixture (regardless of halogen concentrations) is regulated as a hazardous waste, and the facility has to comply with hazardous waste generator regulations. Used oil itself is not currently listed as a Federal hazardous waste. There are no other used oil rules that apply to used oil generators.

Used Oil Collectors, Processors, and Marketers

Used oil businesses have greater responsibilities under EPA's regulatory framework. When these facilities sell (or use) as fuel used oil that contains toxic metals, they are responsible for sending it to the proper type of burner. These "off-specification" used oils may be sold only to industrial burners. Used oil may be off-specification because of arsenic, cadium, chromium, lead, inorganic halogens, or flashpoint. Facilities selling off-spec used oils must notify EPA.

Used oil fuels that are one-specification are essentially equivalent to virgin fuels. Under the used oil rules, on-specoil is totally exempt from regulation. Facilities that are the first to claim that used oil fuels meet the specification must also notify the Agency.

Because these used oil businesses control the quality and destinations of recycled used oils, EPA's upcoming regulatory strategy focuses on these facilities. The Agency is evaluating the comments received on the proposal.

EXHIBIT III-1

Page 5 of 5

Used Oil Burnera

1

The final rule of November 29 required industrial facilities that wished to burn off-specification used oil to notify the We wanted to establish some accountability and a means of tracking the sale of off-specification fuels to the proper facilities. The notification is merely a one-time requirement that serves the limited purpose of miding in implementation of the ban on burning off-specification used oil fuels in nonindustrial boilers. By notifying, burners do not indicate that they are burning hazardous waste. Nor does notification bind burners to follow any particular standards for burning or storing the used oil fuel. For our convenience, we suggested that facilities notify the Agency using a modified hazardous waste notification form (Form 8700-12). Our intent was not to suggest that off-specification used oil fuels were hazardous wastes, nor that these facilities were hazardous waste facilities. Facilities are free to notify using other means, provided that all required information is provided.

The only Federal requirements from the November 29 final rule that apply to burners who purchase or receive off-specification used oil fuel are limited "paperwork" standards, namely:

- 1. to notify the Agency as an off-specification used oil burner (§266.44(b))(a one-time requirement),
- 2. to inform used oil suppliers that the burner has notified the Agency, and will burn off-spec oil in an industrial device only (§266.44(c)), and
- 3. to keep invoices of shipments received (\$266.44(e)).

At this time, there are no other Federal requirements that apply. Used oil is not now a Federally-listed hazardous waste. The November 29 final rule does not impose any Federal storage requirements for used oils. EPA does not require used oil facilities to obtain liability insurance for storage or burning of used oil. The November 29 final rule does not require facilities burning off-spec used oil fuel to have air pollution control devices.

led oil fuels that meet the fuel specifications are totally exempt from regulation Burners of on-spec oil need not notify the Agency: We judge specification used oil fuels to be essentially equivalent to virgin fuel oils. There are no plans to change this finding.

For Further Information

EPA is concerned about the current state of the used oil recycling system. We will continue to consider impacts on used oil recycling in our deliberations. If you have additional uestions, please contact the RCRA/Superfund Hotline (800/424-9346 or 202/382-3000).

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SUPPLEMENTAL INFORMATION: SECTION V

1.	Table V-1	Current and Proposed Feed and Production Rates
		•

- 2. Table V-2 Emissions Summary
- 3. Emissions Calculations
- 4. Figure V-4 Process Flow Diagram
- 5. Figure V-5 USGS Topographical Map
- 6. Figure V-6 Facility Plot Plan

TABLE V-1
CURRENT AND PROPOSED FEED PRODUCTION
AND HEAT INPUT RATES

-	Current	Proposed	
Kiln Minerals Feed	120 T/hr	130 T/hr	1 63%
Clinker Production Rate	142,000 lb/hr	159,250 lb/hr	112.1%
Maximum Heat Input	2.1×10^8 Btu/hr	3.0 x 10 ⁸ Btu/hr	+ 42.8%

TABLE V-2
EMISSIONS SUMMARY

	Uncontrolle	d Emissions*		Proposed	Maximum
<u>Parameter</u>	(lb/hr)	(T/yr)	Basis	(lb/hr)	(T/yr)
Particulate	19,502	81,908	Permit AC27-138850	21.6	90.72
Sulfur Dioxide	1,295	4,705	Permit AC27-138850	12.0	50.4
Nitrogen Dioxide (NO _X)	244	1,025	Permit AC27-138850	244.0**	1,025 **
Volatile Organic Compounds	7.44	31.3	Proposed Limit	7.44**	31.3 **
Carbon Monoxide	79.2	332.6	Proposed Limit	79.2**	332.6 **

^{*} These emissions assume no pollution control, are for calculation purposes only, and do not reflect actual operating conditions.

^{**} It is assumed that no control is provided by the baghouse, but CO VOC's and NO_X are controlled by the system combustion controls, through the use of oxygen and hydrocarbon continuous monitoring of kiln combustion gases. For the case of CO, the limit of 79.2 lb/hr actually represents only 12.0 lb/hr from the combustion source. The process source accounts for an estimated 67.2 lb/hr of emissions. A complete discussion of CO emissions is provided on Page 36 of this application.

The calculations included in this section provide estimates of potential emissions, actual emissions, and control device removal efficiencies, where appropriate for the following parameters: 1) Particulate, 2) Sulfur Dioxide, 3) Nitrogen Dioxide (NO_X), 4) Carbon Monoxide, and 5) Volatile Organic Compounds.

(continued)

1. PARTICULATE

The proposed hourly actual emissions rate for particulate is the same as the currently permitted level. However, because this application includes an increase in hours of operation, the annual actual emissions rate (tons/yr) must increase proportionally. In order to determine the efficiency of the air pollution control device, the potential emission loading to the baghouse is calculated based on an emissions factor from the EPA Guidance Document AP-42, Table 8.6-1.

Calculation of Estimated Actual Emissions:

Estimated Actual Emissions = 21.6 lb/hr

(Permit AC27-138850)

= (21.6 lb/hr x 8,400 hr/yr)

÷ (2',000 lb/ton)

= 90.72 T/yr

Calculation of Potential Emissions:

Potential Emissions = 21.6 lb/hr

= 90.72 T/yr

Calculation of Control Device Removal Efficiency:

Uncontrolled Emissions Factor = 245.0 lb/ton clinker

Proposed Production Rate = 79.6 T/hr clinker

Potential Emission Loading = $(245 \text{ lb/ton}) \times (79.6 \text{ T/hr})$

to Baghouse

= 19,502.0 lb/hr

Control Device Removal Efficiency = (19,502 lb/hr - 21.6 lb/hr)

 \div (19,502 lb/hr)

= 99.9%

(continued)

2. SULFUR DIOXIDE

The proposed hourly actual emissions rate for Sulfur Dioxide is the same as previously permitted. However, because this application includes an increase in hours of operation, the annual actual emissions rate (tons/yr) must increase proportionally. Sulfur Dioxide is generated in the cement kiln from two sources: 1) The minerals present in the raw process feed, and 2) The combustion of fuel (coal). Uncontrolled emissions factors for Sulfur Dioxide, found in the EPA Guidance Document AP-42, are used in calculating the potential loading to the baghouse from each source.

Calculation of Estimated Actual Emissions:

Estimated Actual Emissions

= 12 lb/hr

(Permit AC27-138850)

= (12 lb/hr x 8,400 hr/yr)

÷ (2,000 lb/ton)

 $= 50.4 \text{ T/yr SO}_2$

Calculation of Potential Emissions:

Potential Emissions

= 12 lb/hr

 $= 50.4 \text{ T/yr SO}_2$

Calculation of Control Device Removal Efficiency:

Mineral Source:

Sulfur Dioxide Emission Factor

= 10.2 lb SO₂/ton clinker (from AP-42)

Clinker Production Rate

= 79.6 T/hr

Uncontrolled Emissions

= (79.6 tons clinker/hr)

x (10.2 lb sulfur/ton clinker)

= 811.9 lb/hr

= (811.9 lb/hr x 8,400 hr/yr)

÷ (2,000 lb/ton)

 $= 3,410 \text{ T/yr SO}_2$

(continued)

Calculation of Control Device Removal Efficiency: (continued)

Fuel Source:

Maximum Fuel Consumption Rate = 24,170 lb/hr

Maximum Fuel Sulfur Content = 1%

Conversion Factor = 2 lb $SO_2/lb S$

Fuel Source:

Uncontrolled Emissions = $(2^4,170 \text{ lb fuel/hr})$ $\times (0.01 \text{ lb sulfur/lb fuel})$

x (2 lb SO_2/lb S)

= 483 lb/hr SO₂

= (483 lb/hr x 8,400 hr/yr)

- (2,000 lb/ton)

 $= 2,029 \text{ T/yr SO}_2$

Estimated Total Potential Emissions Loading to Baghouse

= 483 lb/hr + 811.9 lb/hr

 $= 1,295 lb/hr SO_2$

= 3,410 T/yr + 1,295 T/yr

 $= 4,705 \text{ T/yr SO}_2$

Control Device Removal Efficiency

= (1,295 lb/hr - 12 lb/hr)

 \div (1,295 lb/hr)

= 99.1%

(continued)

3. NITROGEN DIOXIDE (NO_x)

Nitrogen Dioxide (NO_x) emissions are a function of the kiln combustion process only. It is assumed that no control is provided by the fabric filter.

Calculations of Estimated Actual Emissions:

Estimated Actual Emissions = 244 lb/hr NO_X

= (244 lb/hr x 8,400 hr/yr)

÷ (2,000 lb/ton)

= 1,025 T/yr

Calculations of Potential Emissions:

Potential Emissions = 244 lb/hr

Control Device Removal Efficiency = 0%

= 1,025 T/yr

(continued)

4. CARBON MONOXIDE

Currently, the No. 2 Kiln is permitted for allowable Carbon Monoxide emissions of 8.9 lb/hr. The intent of this application is to modify this permitted allowable level in three ways: 1) To account for Carbon Monoxide generated as a result of chemical reactions inherent in the manufacturing process, 2) To increase the emissions level to account for an increase in the coal feed rate, and 3) To increase the emissions level (in tons per year) to account for an increase in annual operating hours. Calculations addressing each of these factors were conducted by considering the Carbon Monoxide from combustion and process sources separately.

4.1 Combustion Source

Carbon Monoxide formation occurs within the cement kiln in two ways: 1) From the combustion source, through the combustion of fuel (coal), and 2) From the process source, as a product of the chemical reactions inherent in the manufacturing process. The existing permit limit was based on calculations which were included in the original construction permit application, and which were based only on the coal combustion source of Carbon Monoxide. Using a published emissions factor of 1 lb CO/ton coal from EPA's AP-42 Guidance Document, the theoretical actual emissions were calculated corresponding to a coal feed rate of 8.9 tons/hr, based on original Construction Permit AC 27-30450. Because the modifications proposed in this permit application include an increase in coal feed rate, an increase in Carbon Monoxide emissions due to combustion is justified. This increased level is calculated as follows:

Calculation of Proposed Actual Emissions from Combustion Source:

CO Emission Factor = 1 lb/ton of coal burned (AP-42 Table 1.1-1/2)

Actual Emissions = (1 lb CO/ton coal) x (12 T/hr)

= 12 lb/hr

= (12 lb/hr) x (8,400 hr/yr)

÷ (2,000 lb/ton)

= 50.4 T/yr

4.2 Process Source

As stated before, the current limit does not account for Carbon Monoxide generated as part of the chemical process reactions. Thus, the permitted allowable level has not accurately represented the true actual emissions of Carbon Monoxide. In order to determine what quantity of emissions results from this process source, the following analysis was developed.

(continued)

A. Development of Process Chemical Reactions

The basis of the cement manufacturing process is the calcination of Calcium Carbonate (CaCO₃), which is the main constituent of the raw materials feed to the kiln. This reaction is represented by the following equation:

$$CaCO_{3(s)}$$
 ----> $CaO_{(s)}$ + $CO_{2(g)}$

As the reaction occurs, the raw materials are processed and Carbon Dioxide is produced. However, in the high temperature kiln environment, a portion of this Carbon Dioxide decays to form Carbon Monoxide. This reaction occurs according to the following equation:

$$co_2$$
 <----> $co + 1/2 o_2$

In order to determine the quantity of Carbon Monoxide formed within the cement kiln, it is necessary to determine the equilibrium constant for this reaction corresponding to the average kiln temperature. The following section provides a derivation of the equilibrium constant expression.

B. Derivation of Equilibrium Constant (K_p) Expression

Theoretical Reaction

$$co_2 \stackrel{\leftarrow}{=} co + 1/2 o_2$$
 Equation 1

An equation for the equilibrium constant, K_p , specific to this reaction can be written:

$$K_{p} = \frac{[N_{CO}] [N_{CO}]^{\frac{1}{2}}}{[N_{CO2}]} \times \frac{(P)^{\frac{1}{2}}}{(Nm)^{\frac{1}{2}}}$$
 Equation 2

(continued)

Incomplete Reaction

 CO_2 ----> ZCO_2 + XCO + YO_2 Equation 3

Using stoichiometry, the following relations can be developed from Equation 3:

C Balance: 1 = Z + X Equation 4

O Balance: 2 = 2Z + X + 2Y Equation 5

Solving Equation 4 for Z in terms of X:

Z = 1 - X Equation 6

Substituting Equation 6 for Z into Equation 5:

2 = 2 (1-X) + X + 2Y Equation 7

Simplifying Equation 7 to solve for Y in terms of X:

2Y = X

Y = X/2 Equation 8

By definition, the following equation can be written for Nm:

Nm = X + Y + Z Equation 9

Substituting Equation 6 for Z and Equation 8 for Y into Equation 9:

Nm = X + 1 - X - X/2 Equation 10

Simplifying Equation 10:

Nm = 1 + X/2 Equation 11

(continued)

Substituting Equation 11 into Equation 2 and simplifying:

$$K_p = \frac{X (Y)^{\frac{1}{2}}}{Z} \times \frac{(P)^{\frac{1}{2}}}{(X + Y + Z)^{\frac{1}{2}}}$$

$$K_p = \frac{X (X/2)^{\frac{1}{2}}}{(1 - X)} \times \frac{(P)^{\frac{1}{2}}}{(1 + X/2)^{\frac{1}{2}}}$$

$$K_p = \frac{X (X/2)^{\frac{1}{2}}}{(1 - X)} \times \frac{(P)^{\frac{1}{2}}}{(2 + X/2)^{\frac{1}{2}}}$$

$$K_p = \frac{(X)^{-3/2}}{(1 - X)} \times \frac{(P)^{\frac{1}{2}}}{(2 + X)^{\frac{1}{2}}}$$

Equation 12

Substituting P = 1 atm into Equation 12:

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$$K_p = \frac{(X)^{-3/2}}{(1 - X) (2 + X)^{\frac{1}{2}}}$$

Equation 13

(continued)

C. Calculation of Current Actual Emissions from Process Source

In order to use the expression developed in Section B, values for K_p were obtained corresponding to a temperature range of 1,000°F to 3,500°F. Using the calcination reaction stoichiometry along with the current permitted raw material feed rate of 120 tons/hr, the following calculations were developed:

$$K_p = \frac{(X)^{-3/2}}{(1 - X)(2 + X)^{\frac{1}{2}}}$$
 Equation 1

X = Moles of Carbon Monoxide

Using the values of K_D obtained, as well as Equations 1 and 2, the graph shown in Figure V-1 was developed. This establishes the formation of Carbon Monoxide as a function of kiln temperature. Figure V-2 provides a temperature profile for the No. 2 Kiln. By calculating the mean temperature and narrowing the range to within 1,500°F and 3,000°F, the graph included in Figure V-3 was developed. This shows a Carbon Monoxide emissions rate of 62.0 lb/hr for the mean kiln temperature of 2,422°F. The emissions calculations for the current permitted conditions and this process source of Carbon Monoxide are therefore provided as follows:

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EMISSIONS CALCULATIONS

(continued)

Process Source:

D. Calculation of Proposed Actual Emissions from Process Source

Because the modifications proposed in this application include an increase in the raw materials feed rate, an increase in the actual emissions of Carbon Monoxide generated from the process source is therefore justified. A calculation of this increased level of actual emissions is provided below:

EMISSIONS CALCULATIONS

(continued)

CARBON MONOXIDE EMISSIONS SUMMARY

Table V-3 is provided as a summary of the emissions calculations presented for Carbon Monoxide. Estimated potential emissions are considered equal to proposed actual emissions. It is assumed that the baghouse provides no control of Carbon Monoxide emissions. A review of this table shows that, although the proposed actual emissions level of 79.2 lb/hr is significantly higher than the current permitted level, a large part of the difference between the two can be attributed to the process source of Carbon Monoxide, which has never been considered before. The net increase in actual emissions is insignificant, and is due simply to the proposed increases in coal feed rate and hours of operation.

In order to substantiate the calculated value of 79.2 lb/hr for proposed actual emissions of Carbon Monoxide, Exhibit V-1 provides a data summary sheet compiled during performance testing of the No. 2 Kiln, conducted on May 23, 1989. Exhibit V-2 provides additional data on typical levels of Carbon Monoxide emitted by a cement kiln.

Table V-4 provides a comparison of ground level concentrations, determined through air dispersion modeling, with applicable standards.

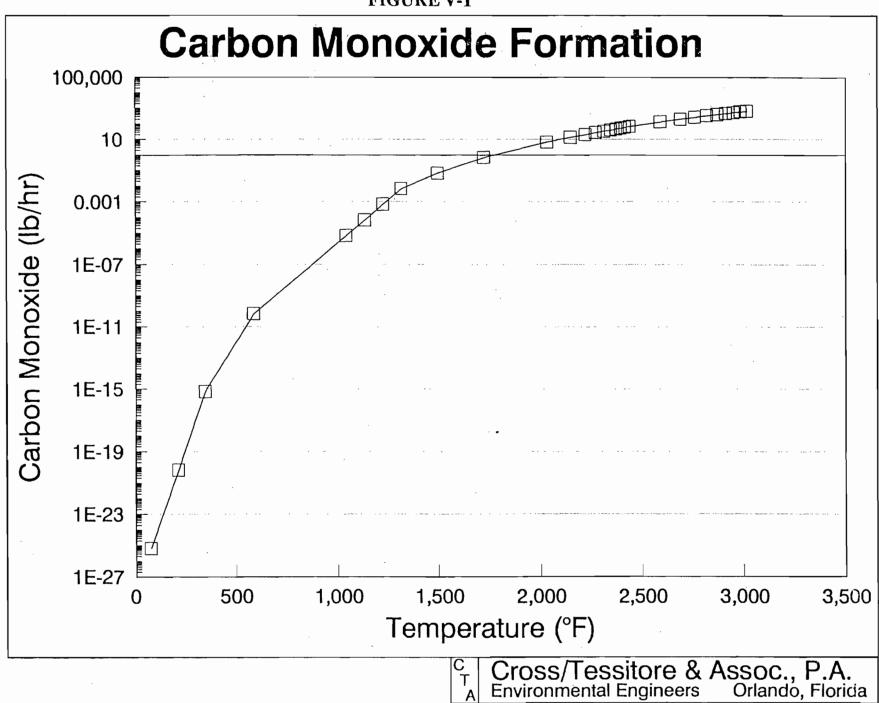
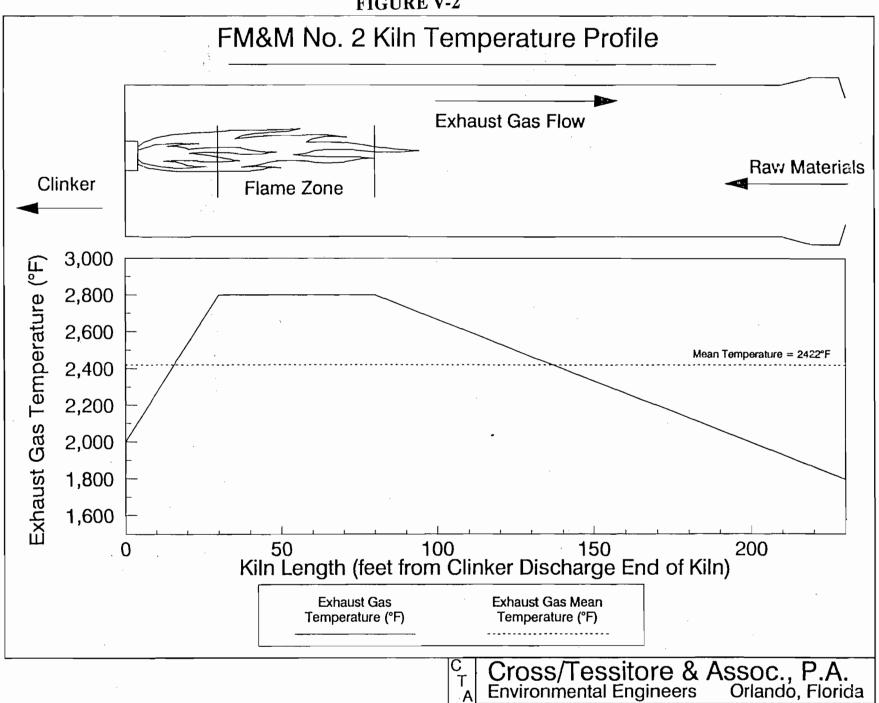


FIGURE V-2



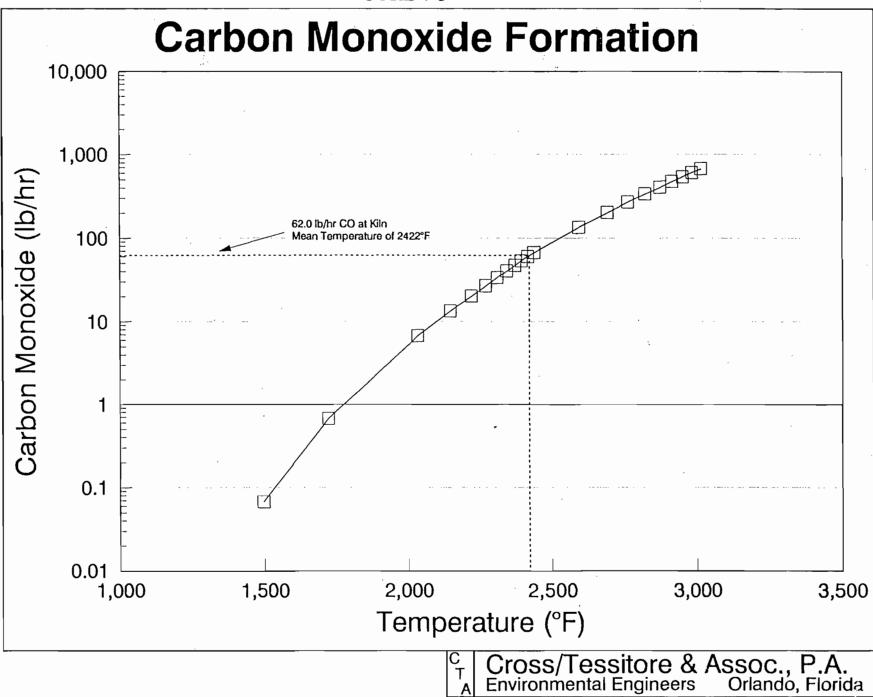


TABLE V-3 CARBON MONOXIDE

EMISSIONS SUMMARY

		rrent ted Level	Curi Actual	rent Emissions		posed Emissions	Ne Emissions	t i Increase
	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)
Combustion Source	8.9	35.1	8.9	35.1	12.0	50.4	3.1	15.3
Process Source			62.0	244.8	67.2	282.2	5.2	37.4
TOTAL	8.9	35.1	70.9 47, 4	- 279.9 - 1 <i>73.</i> 7	-79:2···	-332.6 · / // 22	-8.3 2.4	- 52 :7-

EXHIBIT V-1
FLORIDA MINING AND MATERIALS TESTING SUMMARY

on Dy 42, 5045-fest done on May 2: 15 10/17-19, 1969

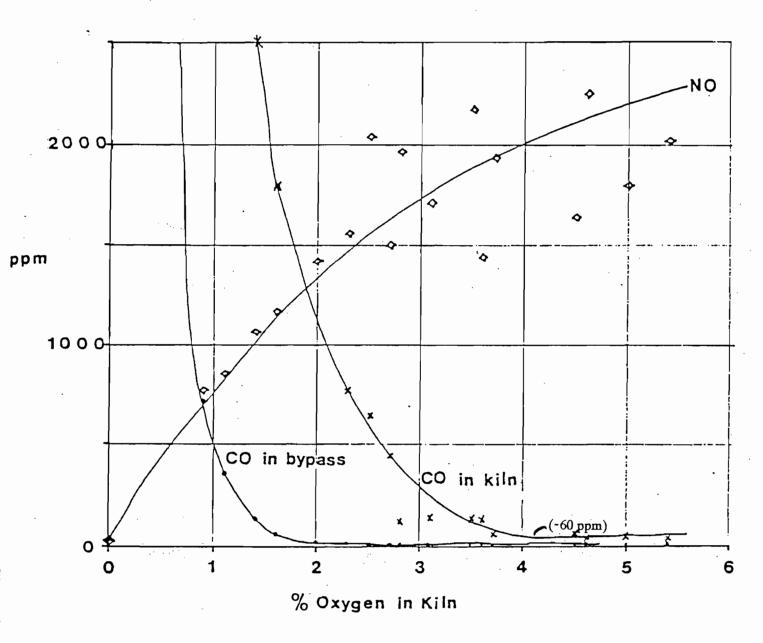
	<u>Test Results /0/17-19 , /487</u>			
	Kiln Feed Rate (ton/hr)	Emissions (lb/hr)	Current Allowable Emissions (lb/hr)	
		i E 409hr	7)	
Particulate	130	7.51	21.6	
Sulfur Dioxide	130	0.44 (1)	12.0	
Nitrogen Dioxide (NO _x)	130	135 (1)	250	
Carbon Monoxide	130	39.5 (1)	8.9	
	130	· 44.8 -> 128,	16 130 62 130	
Volatile Organic Compounds	130	5.4	77 - 2.7	

⁽¹⁾ These measured emissions represent kiln operation while the raw mill is down.

EXHIBIT V-2

Page 1 of 2

Fig. 3 CO and NO vs Oxygen in Kiln



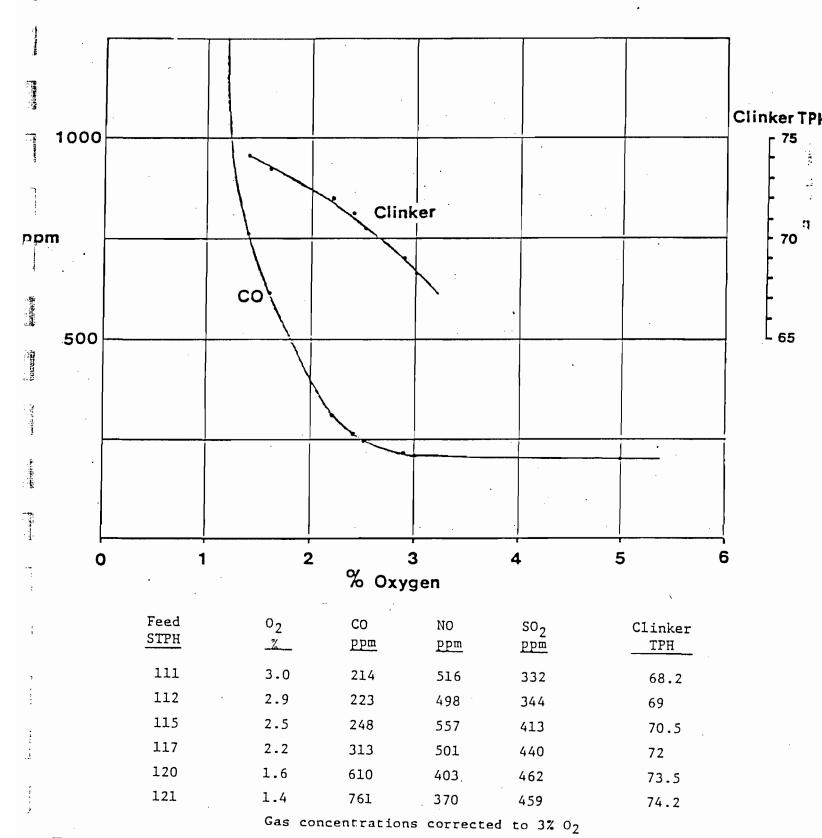
From "The Use of Carbon Monoxide and Other Gases for Process Control", by Eric R. Hansen. Submitted for the 1985 I.E.E.E. Conference.

NOTE: CO in bypass can be considered representative of the combustion source. CO in kiln can be considered representative of both the combustion and process sources.

EXHIBIT V-2

Page 2 of 2

Fig. 4 CO and production vs % Oxygen at ID Fan



From "The Use of Carbon Monoxide and Other Gases for Process Control", by Eric R. Hansen. Submitted for the 1985 I.E.E.E. Conference.

TABLE V-4 COMPARISON OF CARBON MONOXIDE IMPACT LEVELS

1

Averaging Time	Maximum ⁽¹⁾ Ground Level Impact (ug/m ³)		ation of ⁽²⁾ um Impact North	Significant ⁽³⁾ Impact Levels (ug/m ³)	National ⁽⁴⁾ Ambient Air Quality Standard (ug/m ³)
l-Hour	832.79	356, 000	3, 168, 700	2,000	40,000
8-Hour	395.68	356, 000	3, 168, 700	500	10,000

- (1) Calculated based on dispersion coeficients developed through ISCST dispersion modeling. For complete modeling output listing, see Volume II of this application
- (2) UTM coordinates in meters (source location: East 356, 100 West 3, 168, 700).
- (3) From DER 17-2.100 (180).
- (4) From DER 17-2.300.

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EMISSIONS CALCULATIONS

(continued)

5. VOLATILE ORGANIC COMPOUNDS (TOTAL HYDROCARBONS)

It is estimated that an achievable actual emissions concentration for the No. 2 Kiln is 20 ppm (as carbon). This level is consistent with the EPA's proposed level for industrial furnaces and believed to be representative of good operating procedures. Control of volatile organic compounds (hydrocarbons) is achieved through properly maintained combustion conditions within the kiln system. It is assumed that no control is provided by the fabric filter. The following provides a calculation of the estimated potential and actual emissions rate based on the EPA's proposed levels.

Estimated Potential Emissions

$$= \frac{(20 \text{ ppm}) \times (12 \text{ g/mole}) \times (199,000 \text{ cu. ft/min}) \times (60)}{(385 \text{ ft}^3) \times (10^{+6})}$$

$$= 7.44 lb/hr$$

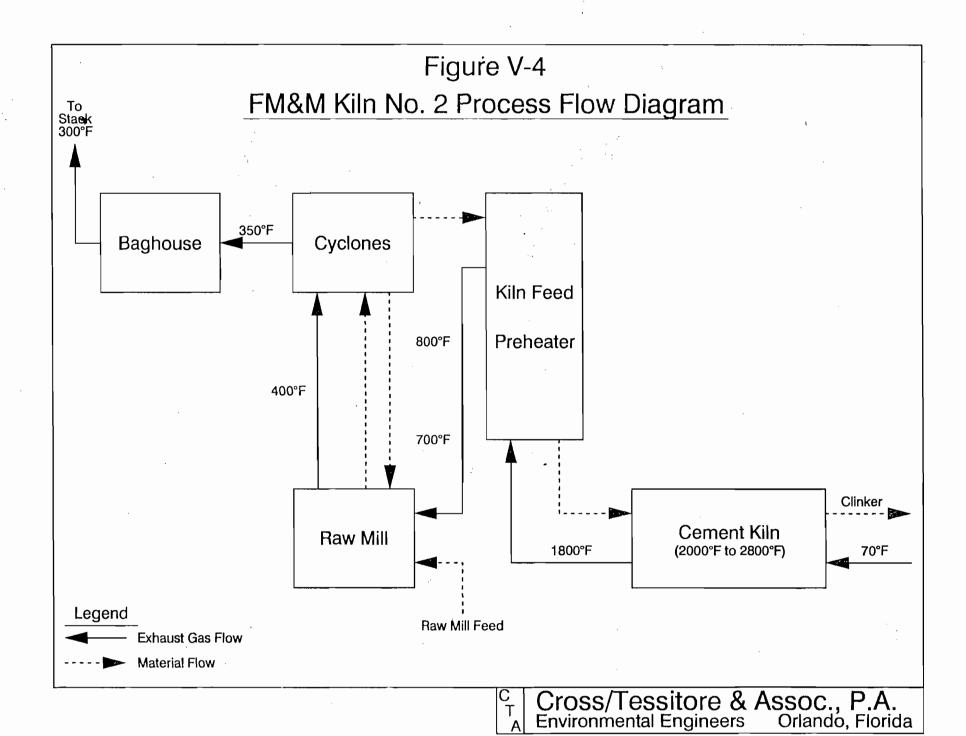
$$= 31.3 \text{ T/yr}$$

Control Device Removal Efficiency

= 0%

Estimated Actual Emissions

$$= 7.44 \text{ lb/hr} \qquad \qquad 5.4$$



Cross/Tessitore & Assoc., P.A. Environmental Engineers Orlando, Florida

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FIGURE V-5 USGS TOPOGRAPHICAL MAP

SUPPLEMENTAL INFORMATION: SECTION VII

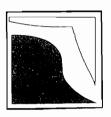
P 256 396 119

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3. Article Addressed to: Henry E. Andre, V.P.	4 Article Number P 256 396 119
Fla. Mining & Materials	Type of Service:
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Brooksville, Fl 34605-0006	Express Mail Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
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FLORIDA MINING & MATERIALS

A SOUTHDOWN COMPANY

P. O. BOX 6, BROOKSVILLE, FLORIDA 34605-0006 TELEPHONE (904) 796-7241

July 11, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. C.H. Fancy, P.E. Chief Bureau of Air Regulations Florida Dept. of Environmental Regulations Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, FL 32399-2400

Dear Mr. Fancy:

Attached is the Affidavit of Legal Publication, published in the Sun Journal on June 22, 1990. This Intent to Issue was for the modification to Florida Minings' #2 Kiln Permit.

Sincerly,

Ralph E. Shepard

Manager Environmental Affairs

RES/jp

cc: Hank Andre Don Kelly

Joe Tessitore

John Regrald

RECEIVED

JUL 1 6 1990

DER - BAQ®

P. O. BOX 6, BROOKSVILLE, FLORIDA 34605-0006



P 237 527 210

MAIL

Mr. C.H. Fancy, P.E. Chief Bureau of Air Regulations Florida Dept. of Environmental Regulations Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, FL 32399-2400

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AFFIDAVIT OF LEGAL PUBLICATION

The Sun-Journal
Published Tuesday thru Saturday
Brooksville, Hernando, Florida
STATE OF FLORIDA
COUNTY OF HERNANDO

Before the undersigned authority personally appeared David Poole, who on oath says he is General Manager of the Sun-Journal, a daily newspaper published at 703 Lamar Ave., Brooksville in Hernando County, Florida; that the attached copy of advertisement, being a legal advertisement in

the matter of Notice	of Intent
in the	Court
was published in said newspap	per in the issues of
6-22	
published at 703 Lamar Ave County, Florida, and that said continuously published in said Tuesday thru Saturday and ha mail matter at the post office County, Florida, for a period of publication of the attached co says that he has neither paid corporation any discount, rebapurpose of securing this advert newspaper.	said Sun-Journal is a newspaper., Brooksville, in said Hernando newspaper has heretofore been Hernando County, Florida, each as been entered as second-class in Brooksville, in said Hernando of 1 year next preceding the first py of advertisement; and further nor promised any person, firm or ate, commission or refund for the disement for publication in the said
David Poole, General Manager, The Su	n-Journal
BY: San Expires l	re me this22ndday of 1990 A.D. Freus el
	clockM. and Recorded in
Book No, Page	
Record Verified	
Clerk,Court, I	Hernando County, FL

By......D.C.

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, witnin 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

(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 pro-

posed 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 admin-

istrative 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 e 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 par-ticipate 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

Regulation
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 323992400

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

tion of this notice will be considered in the Department's final determination.

within 14 days of the publica-

PUBLISH: June 22, 1990

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RECEIPT FOR CERTIFIED MAIL

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

Special Delivery Fee

Restricted Delivery Fee

Return Receipt showing to whom and Date Delivery

TOTAL Postage and Fees

Postmark or Date

4 27 - 173474

SENDER: Complete items 1 and 2 when additional 3 and 4.	services are desired, and complete items
Put your address in the "RETURN TO" Space on the rever	se side. Failure to do this will prevent this
card from being returned to you. The return receipt fee will p 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) request 1. Show to whom delivered, date, and addressee's ed	teď.
(Extra charge)	(Extra charge)
3. Article Addressed to:	4. Article Number
Henry E. andre, VP." Fla. Mining & Materials	17 438 762 878
TELO Minuno & Materials	Type of Service:
Planting , made as	Registered Insured
14.0. BOX 6	Certified COD Return Receipt
Brooksville, Fl	Express Mail for Merchandise
34605-006	Always obtain signature of addressee
346036006	or agent and DATE DELIVERED.
5. Signature – Address	8. Addressee's Address (ONLY if
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7. Date of Delivery	1990
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PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-	-865 DOMESTIC RETURN RECEIPT

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301



BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

RECEIVE

MAR 29 1990

DER - BAOM.

WAIVER OF 90 DAY TIME LIMIT UNDER SECTIONS 120.60(2) AND 403.0876, FLORIDA STATUTES

License (Permit, C	ertification) Application No. AC 27-173474
Applicant's Name:	Florida Mining & Materials

The undersigned has read Sections 120.60(2) and 403.0876, Florida Statutes, and fully understands the applicant's rights under that section.

With regard to the above reference license (permit, certification) application, the applicant hereby with full knowledge and understanding of (his) (her) (its) rights under Sections 120.60(2) and 403.0876, Florida Statutes, waives the right under Sections 120.60(2) and 403.0876, Florida Statutes, to have the application approved or denied by the State of Florida Department of Environmental Regulation within the 90 day time period prescribed in Sections 120.60(2) and 403.0876, Florida Statutes. .. Said waiver is made freely and voluntarily by the applicant, is in (his) (her) (its) selfinterest, and without any pressure or coercion by anyone employed by the State of Florida Department of Environmental Regulation.

This waiver shall expire on the 3rd day of May

The undersigned is authorized to make this waiver on behalf of the applicant.

This waiver is intended only to extend the 90 day period prescribed in Sections 120.60(2) and 403.0876, Florida Statutes, by 30 days.

Signature

James S. Alves

Hopping Boyd Green & Sams

P. O. Box 6526, Tallahassee, FL 32314 March 28, 1990

Date

Sworn to and subscribed before me this 28thday 90 March

Notary Public

Notary Public, State of Florida My commission expires: My Commission Expires May 17, 1990 Bonded thru Troy Fain Insurance inc.

DER Form 17-1.201(8)

Effective November 30, 1982

Page 1 of 2

Gladwegot M.S -I'll talk to Refer on what tray intend to do.

3/22



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

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

JAN 1 0 1990

4APT-APB-cdw

RECEIVED JAN 12 1930

Ms. Patricia G. Adams Planner Bureau of Air Quality Management Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

DER - BAOM

Florida Mining and Materials (PSD-FL-124)

Dear Ms. Adams:

This is to acknowledge receipt of the application for a proposed amendment to the above referenced permit dated December 7, 1989. discussed between Mr. Barry Andrews of FDER and Mr. Gregg Worley of my staff on January 8, 1990, we have the following comment.

The netting calculation performed by the applicant was incorrect. The applicant used permitted allowable emissions as actual emissions rather than using existing emissions based on the previous two years of operating data. The correct calculation should be proposed allowable emissions-existing actual emissions (based on data).

The emissions changes should be evaluated correctly to determine whether the proposed change is significant for any pollutant.

Thank you for the opportunity to review this package. Any questions or comments may be directed to Mr. Gregg Worley of my staff at (404) 347-2864.

Sincerely yours,

Bruce P. Miller, Chief

Air Programs Branch

Air, Pesticides, and Toxics

Management Division

apied: 8. Rightide C. Holloday Sw Diel R. Skomas, Sw Diel CHI/BT