



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, 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

March 12, 1991

Enclosed is construction permit AC 27-186923 for Florida Mining and Materials to burn flolite in the No. 1 kiln at their facility in 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

Barry D. Andrews
fo —————
C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

Copy furnished to:

- B. Thomas, SW District
- J. Tessitore, P.E.
- C. Hetrick, Hernando County

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of buisness on 3-13-91.

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.

Kuni Jober
Clerk

3-13-91
Date

Final Determination

Florida Mining and Materials
Hernando County
Brooksville, Florida

Construction Permit
No. AC 27-186923

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

March 1, 1991

Final Determination

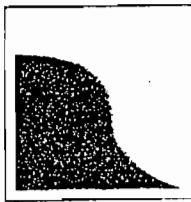
The construction permit application package and supplementary material have been reviewed by the Department. Public Notice of the Department's Intent to Issue was published in The Sun-Journal on January 29, 1991. The Technical Evaluation and Preliminary Determination were available for public inspection at the Department's Southwest District office and the Department's Bureau of Air Regulation (BAR) office.

There were no written comments received during the public notice period. However, a letter was received via FAX on March 1, 1991, from Mr. Joseph L. Tessitore (P.E. of record), requesting that all references to the clinker cooler be deleted from this permit because of a current permitting action on this source. The BAR agrees with the request and all references to the clinker cooler will be deleted in the final permit for signature. Also, the citing for the ASTM for sulfur content in coal will be corrected in Specific Condition No. 3 from ASTM-D-3177-84 to ASTM D3177-75; and, further clarification of the allowable specific concentrations of metals and toxics in Flolite will be included in Specific Condition No. 4 and will be as follows: Cadmium - 0.3 ppm; Lead - 5.0 ppm; and, Arsenic - 1.0 ppm.

Attachment to be Incorporated

9. Mr. J. L. Tessitore's letter dated February 28, 1991, and received via FAX on March 1, 1991.

Therefore, it is recommended that the construction permit be issued as drafted, with the above changes incorporated.



RECEIVED

FEB 1 1991

DER-BAUM

FLORIDA MINING & MATERIALS

A SOUTHDOWN COMPANY

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

January 30, 1991

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.
Tallahassee, FL 32399-2400

Dear Fancy:

Attache is the Affidavit of Legal Publication,
published in the Sun Journal on Jan. 29, 1991.
This Intent to Issue was for the modification to
Florida Mining's #1 Kiln Permit to burn re-refined
oil.

Sincerely,

Ralph E. Shepard
Manager Environmental Affairs

RES/jp

cc: Hank Andre
Don Kelly
Joe Tessitore
B. Mitchell
B. Thomas

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 E.A. Nichols, Jr., 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 newspaper in the issues of _____
1-29

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 or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

E.A. Nichols, Jr.
General Manager, The Sun-Journal

Sworn to and subscribed before me this 29th day of January, 1991 A.D.

BY: Jinda Frousel
My Commission Expires Mar. 2, 1992 Notary Public

Filed _____ 19____, at _____ O'clock _____ M. and Recorded in _____

Book No _____, Page _____

Record Verified _____

Clerk, _____ Court, Hernando County, FL

By _____ D.C.

State of Florida
Department of
Environmental Regulation
Notice of Intent

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Florida Mining and Materials, Post Office Box 6, Brooksville, Florida 34605-0006, to modify the No. 1 kiln at their cement plant to be allowed to burn re-refined oil (Flolite) during startup, idle times, and as a limited supplemental fuel with coal. No. 6 fuel oil will be used as a backup fuel only. A determination of Best Available Control Technology (BACT) was not required. The applicant's facility is located off U.S. Highway 98 Northwest of Brooksville, Hernando County, Florida. The Department is issuing this intent to issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

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

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

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



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:

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

Permit Number: AC 27-186923

Expiration Date: December 31, 1991

County: Hernando

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

Project: Modification to burn
Flolite in Kiln No. 1

This permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1989 version). 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. 1 kiln to burn Flolite during startup, idle times, and as a limited supplemental fuel with coal (maximum of 250 hrs/yr). The kiln has a maximum process input rate of 130 tons per hour (product weight of 79.6 tons per hour) and maximum heat input rate of 300.0 MMBtu/hr. No. 6 fuel oil will be used as a backup fuel. 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 Industrial Code: 3241 Cement Manufacturing

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 September 25, 1990.
2. DER's incompleteness letter dated October 23, 1990.
3. FM&M's response received November 26, 1990.
4. FM&M's response received via FAX November 26, 1990.
5. FM&M's response received via FAX January 2, 1991.
6. FM&M's response received via FAX January 7, 1991.
7. FM&M's response received January 9, 1991.
8. Technical Evaluation and Preliminary Determination dated January 18, 1991.
9. Mr. J. L. Tessitore's letter dated February 28, 1991, and received via FAX on March 1, 1991.

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-186923
Expiration Date: December 31, 1991

GENERAL CONDITIONS:

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

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

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

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

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

PERMITTEE: Permit Number: AC 27-186923
Florida Mining and Materials Expiration Date: December 31, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-186923
Expiration Date: December 31, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

14. The permittee shall comply with the following:

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

PERMITTEE: Florida Mining and Materials **Permit Number:** AC 27-186923
Expiration Date: December 31, 1991

GENERAL CONDITIONS:

- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the dates analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. Continuous operation is permitted (i.e., 8760 hrs/yr).
2. The No. 1 kiln's total process input rate shall not exceed 130 tons per hour (wet basis), yielding a maximum clinker product weight of 79.6 tons per hour (dry basis).
3. Except during startup, the No. 1 kiln's maximum process heat input rate shall not exceed 300.0 MMBtu per hour (based on firing a maximum of 24,000 lbs/hr coal with a heating value of 12,500 Btu/lb). The sulfur content of the coal shall not exceed 1.0 percent by weight using ASTM D3177-75. Coals with heating values

PERMITTEE:

Permit Number: AC 27-186923

Florida Mining and Materials

Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

lower than 12,500 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.

4. The total combined times when using Flolite during startup periods (no coal used), idle times (maximum allowable process heat input of 300.0 MMBtu maintained but no process feed input), and as a limited supplemental fuel with coal (coal unable to sustain maximum allowable process heat input requirement), shall not exceed 250 hours per year. Other than coal, permitted fuels shall consist of either Flolite (re-refined oil blend) containing no more than 1 percent sulfur, by weight, or No. 6 fuel oil containing no more than 0.77 percent sulfur, by weight. Maximum Flolite usage rate is 2069 gals/hr (@ 145,000 Btu/gal). Maximum No. 6 fuel oil usage rate is 1974 gals/hr (@ 152,000 Btu/gal). At all times, the Flolite shall contain no higher concentration of metals or toxics than stated in the certified analysis submitted with Exhibit III of the application and listed in the following:

Cadmium - 0.3 ppm; Lead - 5.0 ppm; and, Arsenic - 1.0 ppm.

5. Particulate matter (PM) emissions from the No. 1 kiln shall not exceed 0.15 kg/metric ton of feed (dry basis) to the kiln (0.30 lb/ton; 39.0 lbs/hr, 169.8 TPY).

6. Visible emissions (VE) from the No. 1 kiln shall not exceed 20% opacity.

7. Compliance shall be demonstrated, in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A (1989), using EPA Method 5 for PM and EPA Method 9 for VE.

8. The No. 1 kiln's total process input 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.

PERMITTEE: Permit Number: AC 27-186923
Florida Mining and Materials Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

9. The applicant shall comply with all of the applicable provisions and requirements of F.A.C. Chapters 17-2 and 17-4, and 40 CFR (July, 1989 version).

10. The DER's Southwest District office shall be notified in writing at least 15 days prior to compliance testing. Test reports shall be submitted to the DER's Southwest District office within 45 days of compliance test completion.

11. Any change in the method of operation, fuels, equipment, startup, or operating hours, pursuant to the term "modification" (F.A.C. Rule 17-2.100), shall be submitted for evaluation and approval to the DER's Bureau of Air Regulation (BAR) office.

12. For PSD purposes and one time requirement, the permittee shall test for all pollutant emissions expected from the No. 1 kiln while firing the Flolite in all of its firing modes. At a minimum, the permittee shall test for the pollutants PM, PM₁₀, SO₂, NO_x, CO, and VOC using EPA Methods 5, 201 or 201A, 6, 7, 10, and 25, respectively, or any other test method or equivalent that has received prior approval by the Department. An ultimate analysis of the particulate filter shall also be required. The test methods shall be in accordance with F.A.C. Rule 17-2.700 and 40 CFR (July, 1989 version).

13. The No. 1 kiln and its associated equipment are subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; 17-2.700: Stationary Source Emission Test Procedures; and, 17-4.130: Plant Operations-Problems.

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

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

PERMITTEE:

Florida Mining and Materials

Permit Number: AC 27-186923

Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

Issued this 8th day
of March, 1991

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Carol M. Browner, Secretary



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

January 18, 1991

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

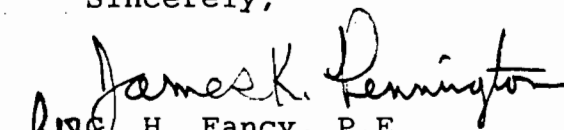
Mr. Henry E. Andre, Vice-President
Florida Mining and Materials
Post Office Box 6
Brooksville, Florida 34605-0006

Dear Mr. Andre:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for Florida Mining and Materials (FM&M) to modify the No. 1 kiln to be allowed to burn a re-refined oil (Flolite) for startup, idle times, and as a limited supplemental fuel with coal. No. 6 fuel oil will be used as a backup fuel only. The project will occur at FM&M's facility near Brooksville, Hernando County, Florida.

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

Sincerely,


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

CHF/BM/plm

Attachments

c: B. Thomas, SW Dist.
J. Tessitore, P.E.
C. Hetrick, HCBCC

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 27-186923

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 September 25, 1990, to the Department of Environmental Regulation for a permit to modify the No. 1 kiln at their cement plant to be allowed to burn re-refined oil (Flolite) during startup, idle times, and as a limited supplemental fuel with coal. No. 6 fuel oil will be used as a backup fuel only. The applicant's facility is located off U.S. Highway 98 Northwest of Brooksville, Hernando County, Florida.

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

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

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

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

The Petition shall contain the following information;

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

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

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

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

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

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

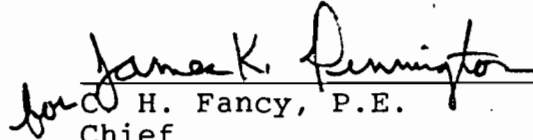
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


for C. H. Fancy, P.E.

Chief
Bureau of Air Regulation

Copies furnished to:

B. Thomas, SW Dist.
J. Tessitore, P.E.
C. Hetrick, HCBCC

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 1-22-91.

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

Kim Jaber
Clerk

1-22-91
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 the No. 1 kiln at their cement plant to be allowed to burn re-refined oil (Flolite) during startup, idle times, and as a limited supplemental fuel with coal. No. 6 fuel oil will be used as a backup fuel only. A determination of Best Available Control Technology (BACT) was not required. The applicant's facility is located off U.S. Highway 98 Northwest of Brooksville, Hernando County, Florida. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

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

The Petition shall contain the following information:

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the

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

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

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

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

Any person may send written comments on the proposed action to Mr. Barry Andrews at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.

Technical Evaluation
and
Preliminary Determination

Florida Mining and Materials
Brooksville, Hernando County, Florida

Construction Permit
No. AC 27-186923

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

January 18, 1991

I. Application

A. Applicant

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

B. Project

The Department received an application on September 25, 1990, for a permit to modify the No. 1 kiln to be allowed to burn Flolite (blend of virgin and re-refined oils) for startup, idle times, and as a limited supplemental fuel with coal at the applicant's cement plant in Brooksville, Florida. It is proposed to burn the Flolite in place of the currently permitted No. 6 fuel oil in the No. 1 kiln. Flolite will be used for no more than 250 hours per year. The No. 6 fuel oil will be used as a backup fuel. Coal is the primary fuel source.

Flolite is a blend of virgin fuel oils and re-refined used oil (mainly used motor oil) resulting in a product with the physical specifications of No. 5 fuel oil. Specification data for Flolite indicate no need for concern about excessive emissions of toxics or metals.

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. Rule Applicability

The construction permit application is subject to review under Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1989 version).

The application package was deemed complete on January 10, 1991.

The facility is located in an area classified as attainment for each of the regulated air pollutants pursuant to Part IV, F.A.C. Chapter 17-2.

A construction permit (AC 27-2255) was issued for the No. 1 kiln and its associated equipment on December 18, 1973. The new source performance standards (NSPS) for portland cement plants (40 CFR 60, Subpart F) was promulgated with an effective date of August 17, 1971. Consequently, the No. 1 kiln and its associated equipment (i.e., clinker cooler, etc.) are subject to the standards of this NSPS.

FM&M claims that the No. 1 kiln and its associated equipment have not been modified since the original construction (see FM&M's letter dated January 9, 1991) nor since January 6, 1975. The definition of "modification" (F.A.C. Rule 17-2.100(127)(b)) establishes that an increase in a production rate would not be a "modification" unless a federally enforceable condition was established after January 6, 1975, to prevent such an increase. There has not been another construction permit issued since the one issued on December 18, 1973. Therefore, the Department will be issuing a construction permit to establish federally enforceable conditions for the No. 1 kiln and its associated equipment.

Since Flolite was not a permitted fuel in the original construction permit, the permittee will be required to conduct mass emissions tests for PM, PM₁₀, SO₂, NO_x, VOC, and CO on the No. 1 kiln while firing Flolite in the proposed various operating modes. The compliance test methods shall be in accordance with F.A.C. Rule 17-2.700 and 40 CFR (July, 1989 version). Also, due to potential heavy metals, an ultimate analysis of the particulate filter will be required.

Since the proposed project is not subject to new source review pursuant to F.A.C. Rule 17-2.500(5), Prevention of Significant Deterioration (PSD), the potential pollutant emissions will be reviewed in accordance with F.A.C. Rule 17-2.520, Sources Not Subject to PSD or Nonattainment Requirements.

The No. 1 kiln and its associated equipment are subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; 17-4.130: Plant Operations-Problems; and, 17-2.660: Standards of Performance for New Stationary Sources, 40 CFR 60, Subpart F, Portland Cement Plants.

III. Summary of Emissions

A. Emission Limitations

The regulated pollutant emissions from the project are particulate matter (PM) and visible emissions (VE) and are as follows:

Table 1

Source	Pollutant	Maximum Standard/Limitation
No. 1 kiln	PM	0.15 kg/metric ton feed (dry basis) to the kiln (0.3 lb/ton; 39.0 lbs/hr, 169.8 tons/yr)
	VE	not greater than 20% opacity
No. 1 Clinker Cooler	PM	0.050 kg/metric ton feed (dry basis) to the kiln (0.1 lb/ton; 13.0 lbs/hr, 56.6 tons/yr)
	VE	less than 10% opacity
Other sources	VE	less than 10% opacity

Note: Emission limitations based on 130.0 tons/hr feed (dry basis) to the kiln and compliance with 40 CFR 60.61 (July, 1989 version)

B. Air Quality Analysis

From a technical review of the application package and supplementary information, an air quality analysis is not required.

IV. Conclusion

Based on the information provided by Florida Mining and Materials, the Department has reasonable assurance that the modification to burn Flolite, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.

Barry D. Ambrose
 # 36624
 1-18-91



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

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

Permit Number: AC 27-186923
Expiration Date: December 31, 1991
County: Hernando
Latitude/Longitude: 28°38'34"N
82°28'25"W
Project: Modification to burn
Flolite in Kiln No. 1

This permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1989 version). 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. 1 kiln to burn Flolite during startup, idle times, and as a limited supplemental fuel with coal (maximum of 250 hrs/yr). The kiln has a maximum process input rate of 130 tons per hour (product weight of 79.6 tons per hour) and maximum heat input rate of 300.0 MMBtu/hr. No. 6 fuel oil will be used as a backup fuel. 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 Industrial Code: 3241 Cement Manufacturing

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 September 25, 1990.
2. DER's incompleteness letter dated October 23, 1990.
3. FM&M's response received November 26, 1990.
4. FM&M's response received via FAX November 26, 1990.
5. FM&M's response received via FAX January 2, 1991.
6. FM&M's response received via FAX January 7, 1991.
7. FM&M's response received January 9, 1991.
8. Technical Evaluation and Preliminary Determination dated January 18, 1991.

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-186923
Expiration Date: December 31, 1991

GENERAL CONDITIONS:

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

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

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

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

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

PERMITTEE: Permit Number: AC 27-186923
Florida Mining and Materials Expiration Date: December 31, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-186923
Expiration Date: December 31, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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

14. The permittee shall comply with the following:

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

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-186923
Expiration Date: December 31, 1991

GENERAL CONDITIONS:

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

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

1. Continuous operation is permitted (i.e., 8760 hrs/yr).

2. The No. 1 kiln's and the clinker cooler's total process input rate shall not exceed 130 tons per hour (wet basis), yielding a maximum clinker product weight of 79.6 tons per hour (dry basis).

3. Except during startup, the No. 1 kiln's maximum process heat input rate shall not exceed 300.0 MMBtu per hour (based on firing a maximum of 24,000 lbs/hr coal with a heating value of 12,500 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

PERMITTEE:

Florida Mining and Materials

Permit Number: AC 27-186923

Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

lower than 12,500 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.

4. The total combined times when using Flolite during startup periods (no coal used), idle times (maximum allowable process heat input of 300.0 MMBtu maintained but no process feed input), and as a limited supplemental fuel with coal (coal unable to sustain maximum allowable process heat input requirement), shall not exceed 250 hours per year. Other than coal, permitted fuels shall consist of either Flolite (re-refined oil blend) containing no more than 1 percent sulfur, by weight, or No. 6 fuel oil containing no more than 0.77 percent sulfur, by weight. At all times, the Flolite shall contain no higher concentration of metals or toxics than stated in the certified analysis submitted with Exhibit III of the application. Maximum Flolite usage rate is 2069 gals/hr (@ 145,000 Btu/gal). Maximum No. 6 fuel oil usage rate is 1974 gals/hr (@ 152,000 Btu/gal).

5. Particulate matter (PM) emissions from the No. 1 kiln shall not exceed 0.15 kg/metric ton of feed (dry basis) to the kiln (0.30 lb/ton; 39.0 lbs/hr, 169.8 TPY). PM emissions from the No. 1 clinker cooler shall not exceed 0.050 kg/metric ton of feed (dry basis) to the kiln (0.10 lb/ton; 13.0 lbs/hr, 56.6 TPY).

6. Visible emissions (VE) from the No. 1 kiln shall not exceed 20% opacity. VE from the No. 1 clinker cooler shall be less than 10% opacity. VE from any other affected source shall be less than 10% opacity.

7. Compliance shall be demonstrated, in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A (1989), using EPA Method 5 for PM and EPA Method 9 for VE.

8. The No. 1 kiln's total process input 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.

PERMITTEE: Permit Number: AC 27-186923
Florida Mining and Materials Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

9. The applicant shall comply with all of the applicable provisions and requirements of F.A.C. Chapters 17-2 and 17-4, and 40 CFR (July, 1989 version).

10. The DER's Southwest District office shall be notified in writing at least 15 days prior to compliance testing. Test reports shall be submitted to the DER's Southwest District office within 45 days of compliance test completion.

11. Any change in the method of operation, fuels, equipment, startup, or operating hours, pursuant to the term "modification" (F.A.C. Rule 17-2.100, shall be submitted for evaluation and approval to the DER's Bureau of Air Regulation (BAR) office.

12. For PSD purposes and one time requirement, the permittee shall test for all pollutant emissions expected from the No. 1 kiln while firing the Flolite in all of its firing modes. At a minimum, the permittee shall test for the pollutants PM, PM₁₀, SO₂, NO_x, CO, and VOC using EPA Methods 5, 201 or 201A, 6, 7, 10, and 25, respectively, or any other test method or equivalent that has received prior approval by the Department. An ultimate analysis of the particulate filter shall also be required. The test methods shall be in accordance with F.A.C. Rule 17-2.700 and 40 CFR (July, 1989 version).

13. The No. 1 kiln and its associated equipment are subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; 17-2.700: Stationary Source Emission Test Procedures; and, 17-4.130: Plant Operations-Problems.

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

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

PERMITTEE:
Florida Mining and Materials

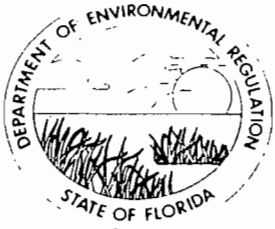
Permit Number: AC 27-186923
Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

Issued this _____ day
of _____, 1991

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Carol M. Browner, Secretary



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

January 9, 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

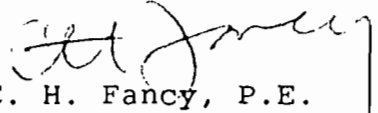
Mr. Henry E. Andre, Vice-President
Florida Mining and Materials
Post Office Box 6
Brooksville, Florida 34605-0006

Dear Mr. Andre:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for Florida Mining and Materials to burn flolite oil for startup of kiln No. 1 at the facility near Brooksville, Florida.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Bill Thomas of the Bureau of Air Regulation.

Sincerely,


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

CHF/JR/plm

Attachments

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

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 27-169616

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 September 5, 1989, to the Department of Environmental Regulation for a permit to modify kiln No. 1 at their cement plant to burn re-refined oil during startup only. The applicant's facility is located off U.S. Highway 98 Northwest of Brooksville, Hernando County, Florida.

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

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

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

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

The Petition shall contain the following information;

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

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

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

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

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

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

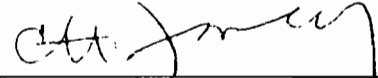
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



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

Copies furnished to:

B. Thomas, SW Dist.
J. Tessitore, P.E.

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 1-10-90.

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

Kym Dohen
Clerk

1-10-90
Date

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

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Florida Mining and Materials, Post Office Box 6, Brooksville, Florida 34605-0006, to modify kiln No. 1 at their cement plant to burn re-refined oil during startup only. A determination of Best Available Control Technology (BACT) was not required. The applicant's facility is located off U.S. Highway 98 Northwest of Brooksville, Hernando County, Florida. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

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

The Petition shall contain the following information:

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the

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

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

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

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

Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.

Technical Evaluation
and
Preliminary Determination

Florida Mining and Materials
Brooksville, Hernando County, Florida

Modification to Burn Flolite in Kiln No. 1
Permit No. AC 27-169616

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

January 9, 1990

I. Application

A. Applicant

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

B. Request

The Department received an application on September 5, 1989, for a permit to burn Flolite (blend of virgin and re-refined oils) in place of No. 6 fuel oil in Kiln No. 1 at the applicant's cement plant in Brooksville, Florida. After receiving additional information on November 1, 1989, the application was deemed complete on November 1, 1989.

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

It is proposed to burn an on-specification used oil blend (Flolite) in place of the currently permitted No. 6 fuel oil in Kiln No. 1. Although the application states that Flolite will be used for up to 7,920 hrs/yr, the applicant subsequently explained that Flolite will be used only 250 hours or less (startup only). No. 6 fuel oil will be used only as a backup fuel. Coal is the primary fuel source.

Flolite is a blend of virgin fuel oils and re-refined used oil (mainly used motor oil) resulting in a product with the physical specifications of No. 5 fuel oil. Emissions from the combustion of Flolite instead of No. 6 oil on startup will result in a slight increase in SO₂ emissions (2.0 lbs/hr or 0.25 ton/yr) and essentially no increase in emissions of other regulated air pollutants. Specification data for Flolite indicate no need for concern about excessive emissions of toxics or metals.

III. Rule Applicability

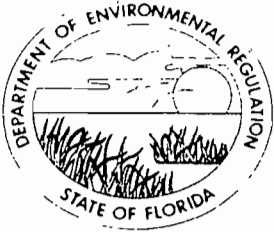
The construction permit application is subject to review under Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. The facility is located in an area classified as attainment for each of the regulated air pollutants. Although the kiln is a major source, the proposed increase in emissions is insignificant 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 17-2.520, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, 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 burn Flolite, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.

Shel Thomas
01/10/90



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:

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

Permit Number: AC 27-169616

Expiration Date: September 30, 1990

County: Hernando

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

Project: Modification to burn
Flolite oil in Kiln No. 1

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. 1 kiln to burn Flolite oil during startup only. 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 September 5, 1989.
2. DER's incompleteness letter dated October 4, 1989.
3. FM&M's response received November 1, 1989.

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-169616
Expiration Date: September 30, 1990

GENERAL CONDITIONS:

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

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

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

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

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

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-169616
Expiration Date: September 30, 1990

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:

Florida Mining and Materials

Permit Number: AC 27-169616

Expiration Date: September 30, 1990

GENERAL CONDITIONS:

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

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

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

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

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

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

14. The permittee shall comply with the following:

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

PERMITTEE:

Florida Mining and Materials

Permit Number: AC 27-169616

Expiration Date: September 30, 1990

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 annual hours of operation of Kiln No. 1 shall not exceed 7920.

2. The No. 1 kiln feed rate shall not exceed 120 tons per hour (wet basis), yielding a maximum clinker-production rate of 71 tons per hour (dry basis).

3. Except during startup, the No. 1 kiln fuel input rate shall not exceed 208.1 MMBTU per hour based on firing 16,800 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.

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-169616
Expiration Date: September 30, 1990

SPECIFIC CONDITIONS:

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.

4. During startup periods that are to exceed no more than 250 hours per year, additional fuel input shall not exceed 7.62 MMBTU per hour. Additional startup fuel shall consist of either Flolite re-refined oil blend containing no more than 1 percent sulfur by weight, or No. 6 fuel oil containing no more than 0.77 percent sulfur by weight. At all times the Flolite oil shall contain no higher concentration of metals or toxics than stated in the certified analysis submitted with Attachment 3 of the application.

5. Particulate matter (PM) emissions from the No. 1 kiln shall not exceed 0.30 lb/ton of feed (dry basis) to the kiln; 33 lbs/hr; 130.7 tons/yr.

6. Visible emissions (VE) from the No. 1 kiln shall not exceed 10% opacity.

7. Compliance shall be demonstrated, in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60 Appendix A (1989), using EPA Method 5 for PM and DER Method 9 for VE.

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. 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.

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

PERMITTEE: Florida Mining and Materials Permit Number: AC 27-169616
Expiration Date: September 30, 1990

SPECIFIC CONDITIONS:

11. Any change in the method of operation, fuels, equipment, startup or operating hours during the period of this permit shall be submitted for approval to DER's Bureau of Air Regulation office.

12. 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).

13. 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

Dale Twachtmann, Secretary

**APPLICATION TO AMEND PERMIT
A027-169616 FOR
UTILIZATION OF FLOLITE
IN CEMENT KILN NO. 1**

**FLORIDA MINING AND MATERIALS
BROOKSVILLE, FLORIDA**

September 24, 1990

**Cross/Tessitore & Associates, P.A.
4763 South Conway Road, Suite F
Orlando, Florida 32712
(407)851-1484**

\$200 pd.
9-25-90
Rept. #151176

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



AC 27-186923

Bob Martinez
GOVERNOR
Dale Twachtman
SECRETARY
Alex Alexander
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Portland Cement Plant New¹ Existing¹
APPLICATION TYPE: Construction Operation Modification
COMPANY NAME: Moore McCormack, Inc. d/b/a Florida Mining & Materials COUNTY: Hernando
Identify the specific emission point source(s) addressed in this application (i.e. Lime
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) No. 1 Cement Kiln
SOURCE LOCATION: Street U.S. Highway 98 City N.W. of Brooksville
UTM: East 17-356.00 North 3169.89
Latitude 28 ° 38 ' 34 "N Longitude 82 ° 28 ' 25 "W
APPLICANT NAME AND TITLE: H. E. Andre, Vice President, Operations Cement and Aggregates
APPLICANT ADDRESS: P.O. Box 6, Brooksville, Florida 34605-0006

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

Moore McCormack, Inc. d/b/a

I am the undersigned owner or authorized representative* of Florida Mining & Materials

I certify that the statements made in this application for a Modification permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization

Signed: H. E. Andre

H.E. Andre, Vice President, Operations Cement and Aggregates
Name and Title (Please Type)

Date: 9/20/90 Telephone No. (904)796-7241

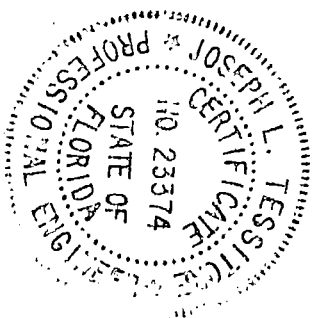
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

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

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

SEP 21 1990

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.



Signed Joseph J. Tessitore
 Joseph L. Tessitore, P.E.
 Name (Please Type)

Cross/Tessitore and Associates, P.A.
 Company Name (Please Type)
 4763 S. Conway Road, Orlando, Florida 32812
 Mailing Address (Please Type)

Florida Registration No. 23374 Date: 9/24/90 Telephone No. (407)851-1484

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

See Attached Project Description

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

Start of Construction Existing Completion of Construction Existing

Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.) The following information represents the initial costs associated with the existing baghouse system. No additional air pollution equipment will be required for the subject modification.

Baghouse Equipment	\$ 582,000.00
Erection	\$ 640,000.00
TOTAL	\$1,286,000.00

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

See Table II-1

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
if power plant, hrs/yr _____ ; if seasonal, describe: _____

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

1. Is this source in a non-attainment area for a particular pollutant? 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. _____
 2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. NO
 3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. NO
 4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? YES
 5. Do "National Emission Standards for Hazardous Air Pollutants"
(NESHAP) apply to this source? NO
- H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? NO
- a. If yes, for what pollutants? _____
 - b. If yes, in addition to the information required in this form,
any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justifi-
cation for any answer of "No" that might be considered questionable.

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Limestone	Particulate	0.02	207,640	
Sand/Clay	Particulate	0.08	20,774	SEE SUPPLEMENTAL
Fly Ash	Particulate	0.14	26,182	INFORMATION:
Staurolite	Particulate	1.40	2,704	Section V
Mill Scale	Particulate	1.40	2,704	Figure V-4

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

1. Total Process Input Rate (lbs/hr): 260,000

2. Product Weight (lbs/hr): 159,250

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

Name of Contaminant	Emission ¹		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual 1/yr			lbs/hr	1/yr	
			See Table III-1				

¹ See Section V, Item 2.

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

³ Calculated from operating rate and applicable standard.

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Fuller Dracco				
Joy Western baghouse	Particulate	99.5%	≥ 10 Micron	Manufacturer's Data

E. Fuels See Table III-2

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

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

Fuel Analysis: See Table III-2

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

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

Annual Average _____ Maximum _____

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

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

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

Stack Height: 70 ft. Stack Diameter: 3.0 (each vent) ft.
 Gas Flow Rate: 250,000 ACFM / DSCFM Gas Exit Temperature: ~ 260 °F.
 Water Vapor Content: ~ 10 % Velocity: 69 FPS

SECTION IV: INCINERATOR INFORMATION
 NOT APPLICABLE

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated	NOT APPLICABLE						
Uncontrolled (lbs/hr)							

Description of Waste _____

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

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

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume (ft) ³	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber	NOT APPLICABLE				
Secondary Chamber					

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

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

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

Type of pollution control device: Cyclone Wet Scrubber Afterburner
 Other (specify) _____

Brief description of operating characteristics of control devices: _____

NOT APPLICABLE

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, sludge, etc.):

NOT APPLICABLE

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

See Table V-1 and Emissions Calculations

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

NOT APPLICABLE

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

Yes No

Contaminant

Rate or Concentration

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

Yes No

Contaminant

Rate or Concentration

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

Contaminant

Rate or Concentration

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

1. Control Device/System:

2. Operating Principles:

3. Efficiency:*

4. Capital Costs:

* Explain method of determining

- 5. Useful Life:
- 7. Energy:
- 9. Emissions:

- 6. Operating Costs:
- 8. Maintenance Cost:

Contaminant

Rate or Concentration

NOT APPLICABLE

10. Stack Parameters

- a. Height: ft.
- b. Diameter: ft.
- c. Flow Rate: ACFM
- d. Temperature: °F.
- e. Velocity: FPS

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

1.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes:

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

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

F Describe the control technology selected:

1. Control Device:

2. Efficiency:¹

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:²

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

¹ Explain method of determining efficiency.

² Energy to be reported in units of electrical power - KWH design rate.

- (5) Environmental Manager:
- (6) Telephone No.:
- (7) Emissions:¹

Contaminant

Rate or Concentration

NOT APPLICABLE

- (8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

NOT APPLICABLE

- (8) Process Rate:¹

10. Reason for selection and description of systems:

¹Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data

NOT APPLICABLE

1. _____ no. sites _____ TSP _____ () SO₂* _____ Wind spd/dir

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

NOT APPLICABLE

2. Instrumentation, Field and Laboratory

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

b. Was instrumentation calibrated in accordance with Department procedures?

[] Yes [] No [] Unknown

B. Meteorological Data Used for Air Quality Modeling

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

2. Surface data obtained from (location) _____

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

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

C. Computer Models Used

1. _____ Modified? If yes, attach description.

2. _____ Modified? If yes, attach description.

3. _____ Modified? If yes, attach description.

4. _____ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant

Emission Rate

TSP _____ grams/sec

SO² _____ grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

Attach all other information supportive to the PSD review.

F. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

G. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

PROJECT DESCRIPTION

The subject of this application is the proposed addition of Flolite to the fuels currently used by the Florida Mining & Materials No. 1 Kiln. Flolite is a re-refined "on-spec" product which is similar to No. 5 fuel oil.

As proposed, Flolite would be mainly used during start-up of kiln operations and during periods when raw materials feed is stopped and the kiln temperature must be maintained. Flolite would be used at rates of up to 2069 gal/hr during these periods and for approximately 250 hrs/yr.

The proposed utilization of Flolite will not result in an increase in emissions of particulate, sulfur dioxide, carbon monoxide, volatile organic compounds or nitrogen dioxide (NO_x).

The sulfur content of Flolite is consistent with that of the coal currently used, therefore emissions of sulfur dioxide should remain unchanged. Emissions of nitrogen dioxide (NO_x) may actually decrease, due to the reduced excess air required for combustion of liquid rather than solid fuels.

TABLE II-1

PERMITTING AND COMPLIANCE ACTIVITIES

<u>Activity</u>	<u>Number</u>	<u>Issued</u>	<u>Expired</u>
Construction Permit	AC27-2255	December 18, 1973	March 1, 1976
Construction Permit Extension	AC27-2255	--	--
Operating Permit	A027-20213	August 13, 1979	August 7, 1984
Operating Permit	A027-89814	October 5, 1984	October 3, 1989
Operating Permit	A027-169616	January 24, 1990	January 18, 1995

TABLE III-1
REGULATED EMISSIONS SUMMARY

Parameter	Current Allowable Emissions		Allowed Emission Rate Per Rule 17-2	Potential Emissions	
	lbs/hr	T/yr		lbs/hr	T/yr
Particulate	36.0	----	N/A	36.0	151.2
Opacity	10%	----	Rule 17-2.660	10%	----

TABLE III-2

FUELS DATA

Fuel Type	Heat Capacity		Sulfur Content ²	Maximum Usage Rate	Maximum Heat Input (Btu/hr)
Current:					
Coal	12,500	Btu/lb	1.0 %	12 T/hr	3.0×10^8
No. 6 Diesel Oil	152,000	Btu/gal	0.77 %	1974 T/hr	3.0×10^8
Proposed:					
Flolite ¹	145,000	Btu/gal	1.0 %	2069 gal/hr	3.0×10^8
Coal	12,500	Btu/lb	1.0 %	12 T/hr	3.0×10^8
No. 6 Diesel Oil	152,000	Btu/gal	0.77 %	1974 T/hr	3.0×10^8

(1) Flolite would be mainly 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 concurrently, the maximum heat input rate will not exceed 3.0×10^8 Btu/hr.

(2) Values shown are approximate.

EXHIBIT III-1
FLOLITE MANUFACTURER'S DATA

FLOLITE

TYPICAL SPECIFICATIONS

GENERAL - Flolite has the normal specifications of #5 fuel oil; however, it has a constant viscosity designed to meet the needs of individual customers.

<u>ANALYSIS</u>	<u>TYPICAL SPECIFICATIONS</u>
API GRAVITY @ 60°F	18 - 29
SULFUR % WT	1.0% Maximum
B S & W	1.0% Maximum
WATER BY DISTILLATION	1.0% Maximum
BTU/GAL	Approx. 145,000 +
VANADIUM	50 - 100 PPM
TOX	Below 500 PPM
PCB's	Below detectable limits (0.5 PPM)
CCR	1.5%
ASPHALTENES	0.5%
METALS	Below EP toxicity Maximum levels.

7-24-89

BEST AVAILABLE COPY



INTERNATIONAL PETROLEUM CORPORATION

October 25, 1989

Cross/Tessitore & Associates, P.A.
Attn: Mr. Greg Gonzales
4763 South Conway Road, Suite F
Orlando, Florida 32812

Subject: International Petroleum Corporation "Flolite"

Dear Mr. Gonzales:

Our "Flolite" product is a blend of "on-specification" re-refined oil and virgin fuel oils. We do not sell any off specification product. The precise formulation is proprietary information; however, virgin fuel normally constitutes less than 50% of the blended product. I am attaching a release from the Federal E.P.A. which states their position that our finished product is equivalent to virgin fuel oils.

The feedstock for our finished product is predominantly used motor oils. This feedstock undergoes four filtration steps, an atmospheric distillation process and a vacuum distillation process.

A copy of a certified analysis of our finished product is attached and is indicative of our typical specifications for finished product.

A copy of the D.E.R. approval for use of our product is also attached.

The following comments are in response to your specific questions.

1. "Flolite" is "on-spec" product and has the physical characteristics of # 5 oil.
2. "BS&W" refers to "Bottom Sediment and Water". This is a normal test for fuel oils. Product is usually heavily discounted if it exceeds 1.0% because it provides less BTU/gallon and is more difficult to burn. The lowest percentage is the best product. "CCR" is an abbreviation for "Conradson Carbon Residue". This is a frequently used test where a specific amount of fuel is heated and burned for a specified time. The unburned portion is the carbon residue. Most # 5 oils run in the 7 - 12% range. The lowest % is the best product.

105 South Alexander Street, Plant City, Florida 33566
Area Code (813) 229-1739 Fla WATS 800-282-9585



INTERNATIONAL PETROLEUM CORPORATION

Cross/Tessitore & Associates, P.A.

Page 2

3. PNA's are present in all fuel oils at varying levels. The cost of the test to determine precise percentages is very expensive and requires very elaborate, complex equipment and highly trained personnel. Heavy hydro-treating, which is sometimes used in processing oils, reduces but does not eliminate PNA's. These hydro-treated oils usually become lubricating oils and make up part of our feedstock. Our distillation processes remove the more volatile materials and a high percentage of aromatics which causes the PNA content of our re-refined product to be lower than virgin oils.

Sincerely,

Don Van Sickle
Director of Marketing

DVS:pw

Encl.



INTERNATIONAL PETROLEUM CORPORATION

MATERIAL SAFETY DATA SHEET

INTERNATIONAL PETROLEUM CORPORATION FUEL OIL - FLOLITE

DANGER!

PROLONGED AND REPEATED CONTACT WITH SKIN

CAN BE HARMFUL

COMBUSTIBLE

KEEP OUT OF REACH OF CHILDREN

TYPICAL COMPOSITION

A mixture of Petroleum Residual (atmospheric or vacuum) and Cutter Stocks (lt. cycle oils, diesel, jet or re-refined oil) blended to meet specifications.

EXPOSURE STANDARD

No OSHA exposure standard of Threshold Limite Value has been established for this material. However, due to the possible carcinogenic effect, exposure should be reduced to the lowest feasible leve.

PHYSIOLOGICAL & HEALTH EFFECTS

EMERGENCY & FIRST AID PROCEDURES

Expected to cause no more than minor irritation.

Eyes

Wash eyes with fresh water for eye at least 15 minutes. If irritation continues, see a doctor.

Not expected to be irritating to the skin but minor irritation may be noted following prolanged or frequently repeated contact. Prolonged or repeated contact with the skin may eventually lead to skin cancer. See additional Health Data.

Skin

Remove and launder contaminated clothing. Wash thoroughly with soap and water following skin contact.

Not expected to be acutely toxic by inhalation.

Inhalation

Since this material is not expected to be an inhalation problem, no first aid procedures are required.

Not expected to be acutely toxic by ingestion.

Ingestion

If swallowed, give a large amount of water to drink, make person vomit and call a doctor.

105 South Alexander Street, Plant City, Florida 33566

TELEPHONE (813) 221-1730 FAX (813) 221-1730 TWATS 800-282-9585

This product may contain significant amounts of polynuclear aromatic hydrocarbons (PNA's) which have been shown to cause skin cancer after prolonged and frequent contact with the skin of test animals. Brief or intermittent skin contact with this product is not expected to have serious effects if the skin is washed off. While skin cancer is unlikely to occur in human beings following use of this product, skin contact should be reduced to a minimum.

SPECIAL PROTECTIVE INFORMATION

Eye Protection: Chemical safety goggles must be worn if there is a likelihood of exposure.
Skin Protection: When handling this material, wear impervious protective clothing, which may include neoprene or rubber gloves, apron, overshoes, goggles and complete facial protection.
Respiratory Protection: This material may be an inhalation hazard and unless ventilation is adequate, the use of an approved respirator is recommended.
Ventilation: Use this material only in well ventilated areas.
Other: If eye or skin contact does occur, washing facilities for eyes and skin should be available nearby.

FIRE PROTECTION

Liquid evaporates and forms vapor which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature raises above 85 F.
Flash Point: (P-M) 55 C (Min.)
Autoignition Temp.: NDA
Flammability Limits: NDA
Extinguishing Media: CO₂, Dry Chemical, Foam, Water Spray.
Special Fire Fighting Procedures: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. See Hazardous Decomposition products. Read the entire bulletin.

The above information is based on data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions below our control and with which we may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for this particular purpose.

Environment Impact: This material may be classed as a water pollutant and should be kept out of sewage and drainage systems and all bodies of water.

Precautions if Material is Released or Spilled: Eliminate all open flames in vicinity of spill or released vapor. Clean up spills as soon as possible. Absorb large spills with absorbent clay, diatomaceous earth or other suitable material.

Waste Disposal Methods: Place contaminated materials in disposable containers and bury in an approved dumping area.

REACTIVITY DATA

Stability (Thermal, Light, Etc.): Stable.

Incompatibility (Materials to avoid): May react with strong oxidizing materials.

Hazardous Decomposition Products: Normal combustion forms carbon dioxide and water vapor and oxides of sulfur; incomplete combustion can produce carbon monoxide.

Hazardous Polymerization: Will not occur.

PHYSICAL PROPERTIES

Solubility: Insoluble in water; miscible with hydrocarbons.

Appearance (Color, Odor, etc.): Black liquid.

Boiling Point: NDA

Melting Point: n/a

Gravity (API): NDA

Vapor Pressure (mm Hg & Temp.): NDA

Vapor Density (Air=1): NDA

Percent Volatile (Volume %): NDA

Evaporation (g/l): NDA

Pour Point: Below +6 C

Viscosity: 4.4 to 38.0 cSt @ 50 C
45 to 300 SUS @ 100 F

% Sulfur: 1.9 (Max.)

n/a = Not Applicable

NDA = No Data Available

SPECIAL PRECAUTIONS

DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA.

TABLE V-1
PROCESS DATA

Kiln Feed Rate	130 T/hr
Clinker Production Rate	79.6 T/hr
Maximum Heat Input	3.0×10^8 Btu/hr

EMISSIONS CALCULATIONS

PARTICULATE

The anticipated emissions rate for particulate is the same as the currently permitted level. 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 Allowable Emissions:

Allowable Emissions = 36.0 lb/hr
(Permit A027-169616)

Calculation of Potential Emissions:

Potential Emissions = 36.0 lb/hr
= 157.7 T/yr

Calculation of Control Device Removal Efficiency:

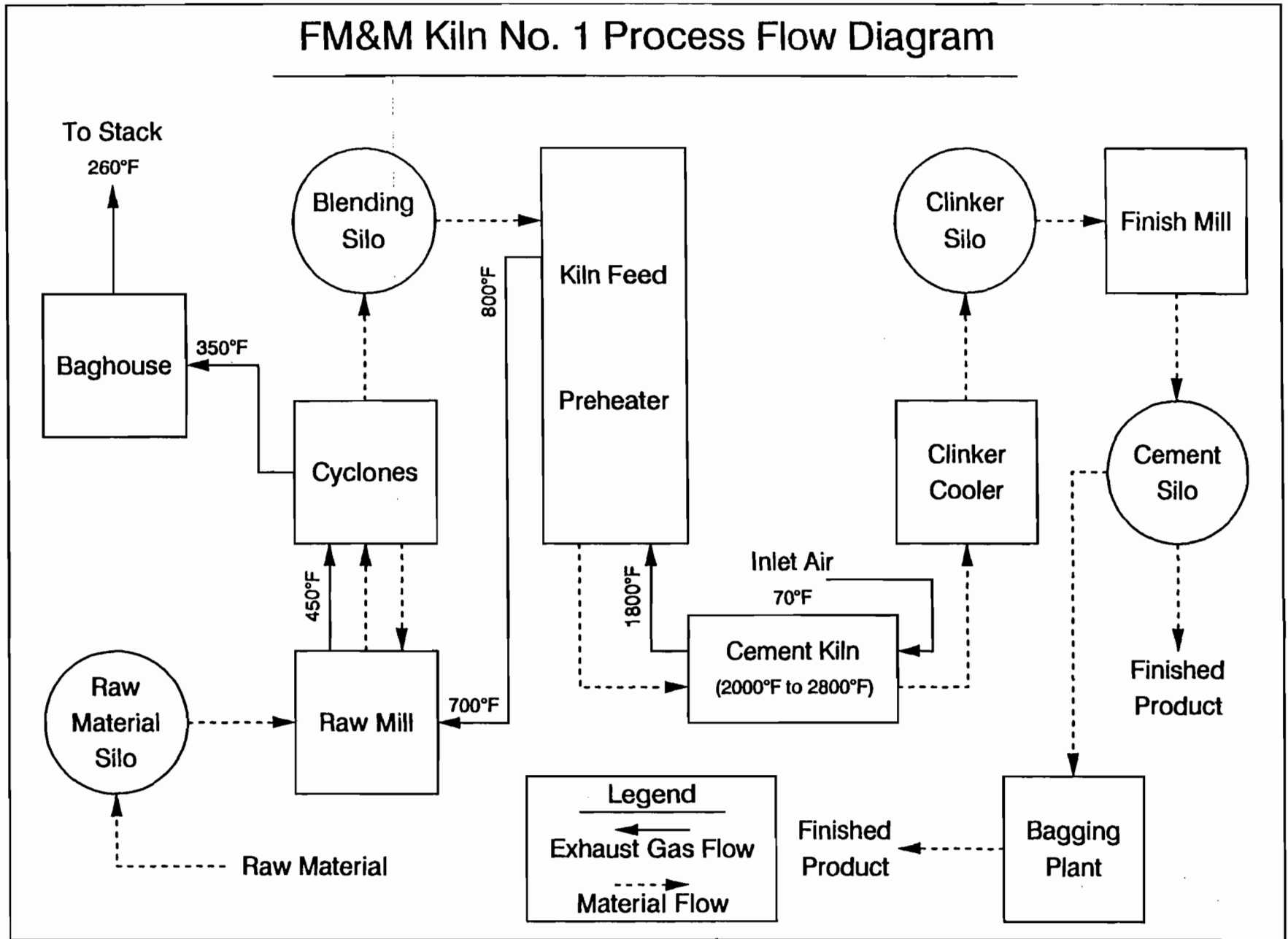
Uncontrolled Emissions Factor = 245.0 lb/ton clinker

Production Rate = 79.6 T/hr clinker

Potential Emission Loading to Baghouse = (245 lb/ton) x (79.6 T/hr)
= 19,502.0 lb/hr

Control Device Removal Efficiency = (19,502 lb/hr - 36.0 lb/hr)
- (19,502 lb/hr)
= 99.8%

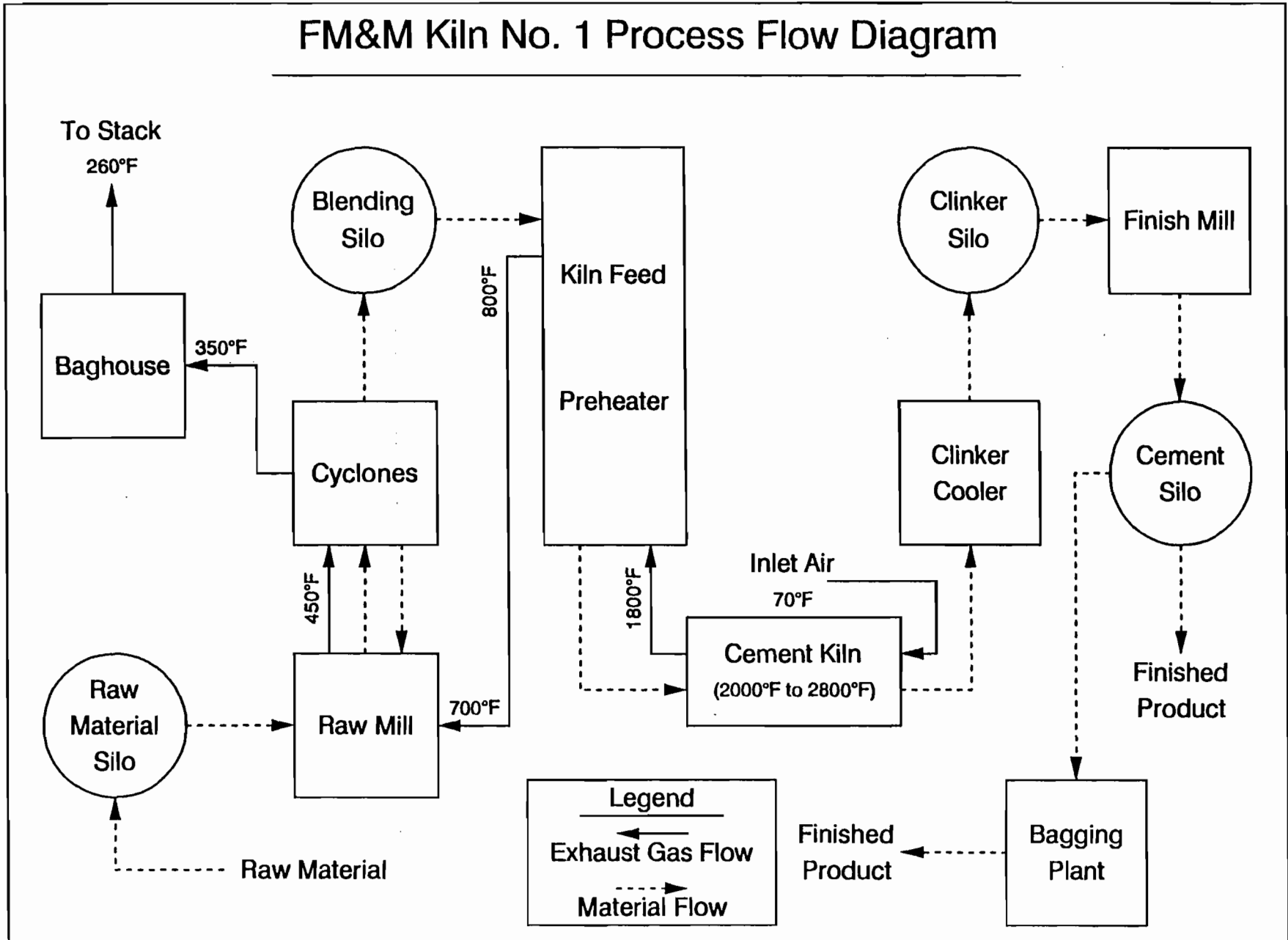
FIGURE V-1



FMM1FLOW.DRW

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 Environmental Engineers Orlando, Florida

FIGURE V-1



FMM1FLOW.DRW

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

FIGURE V-1

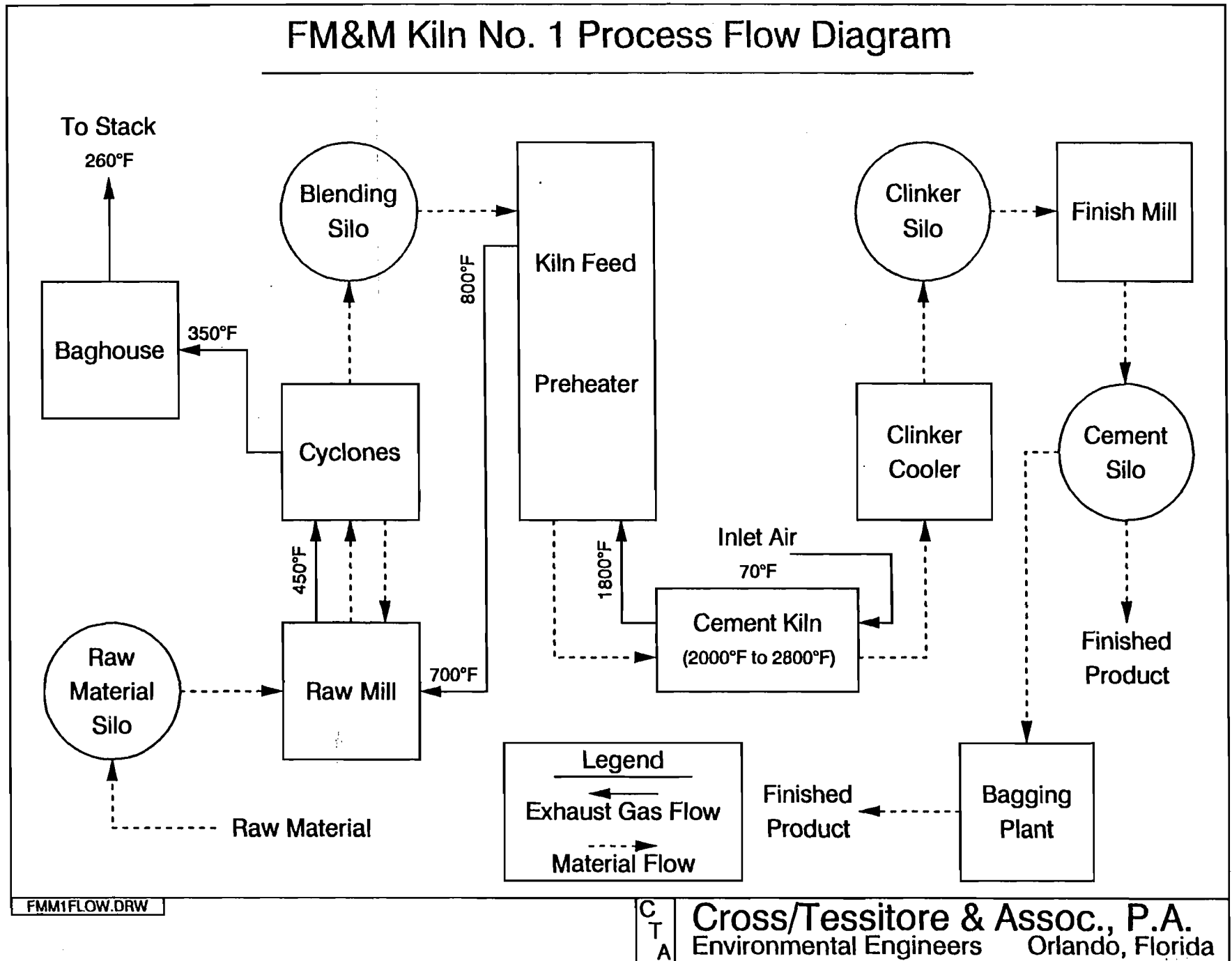
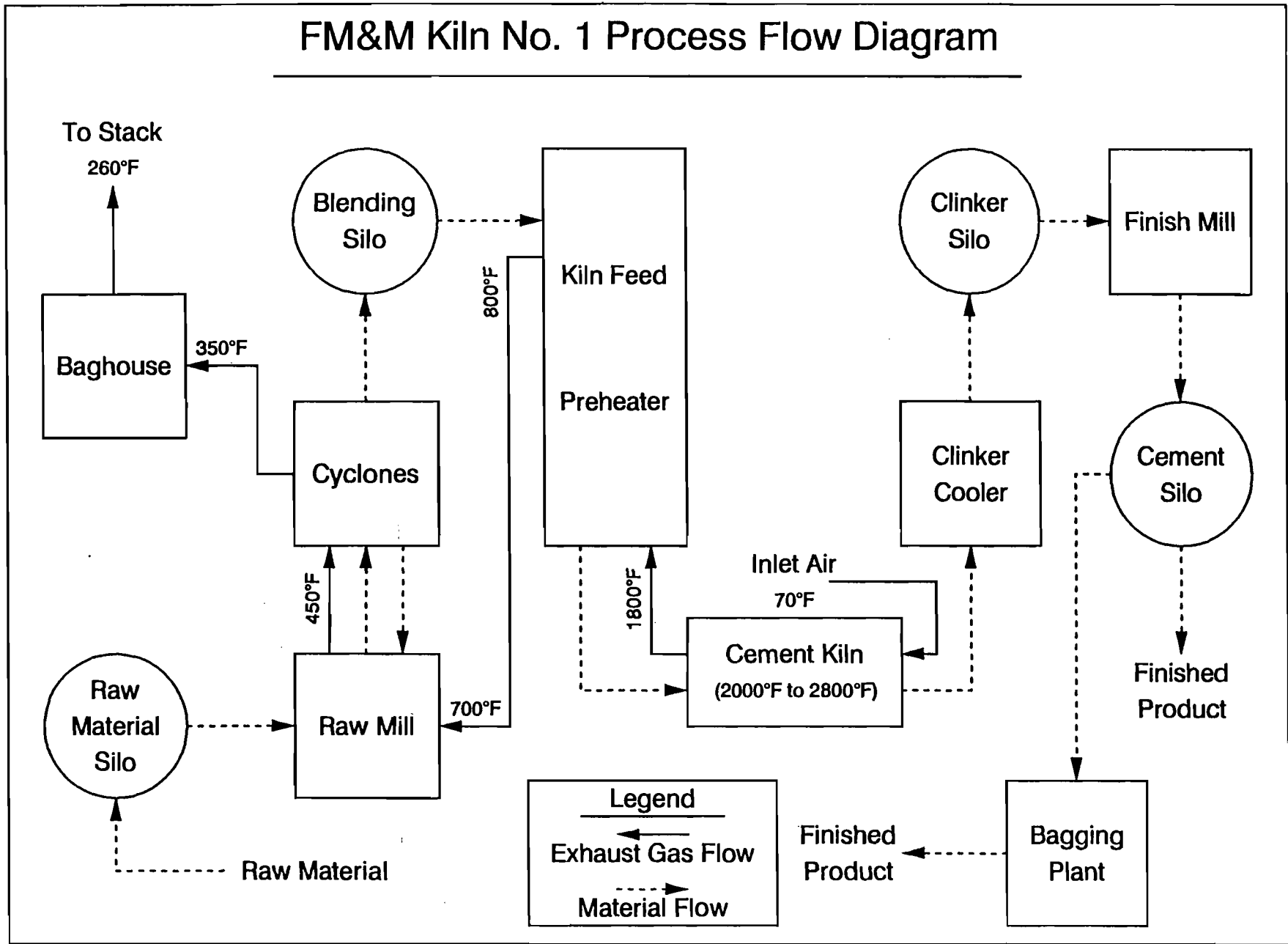


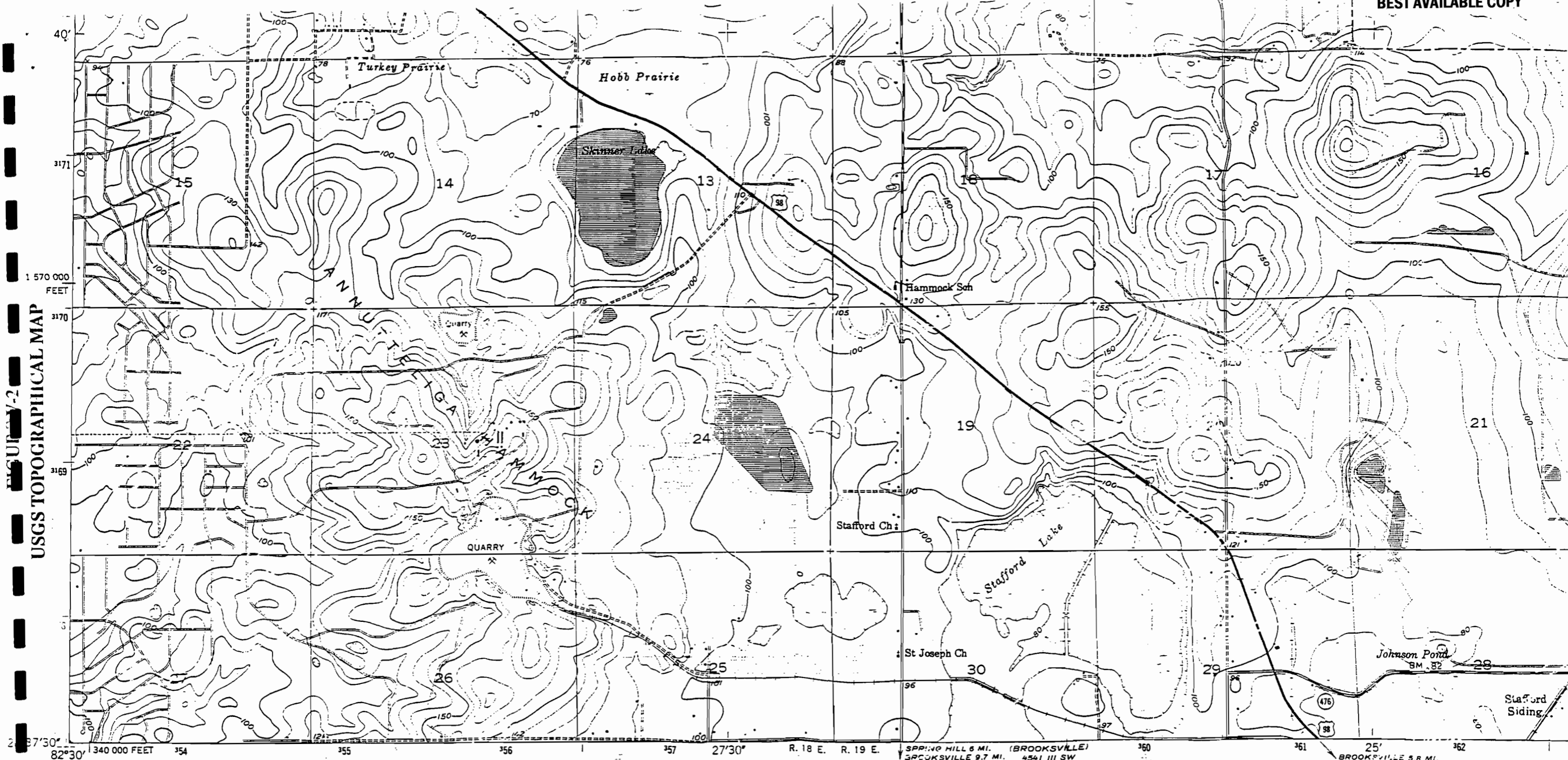
FIGURE V-1



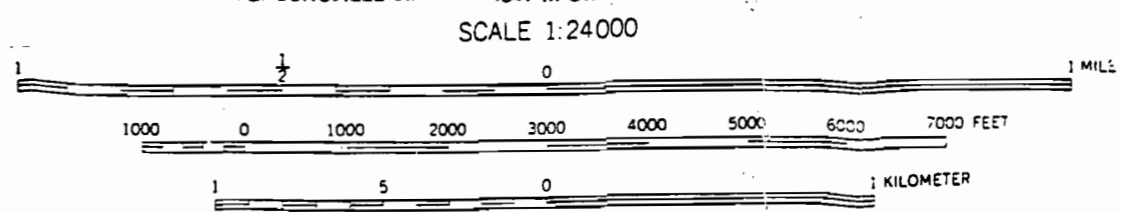
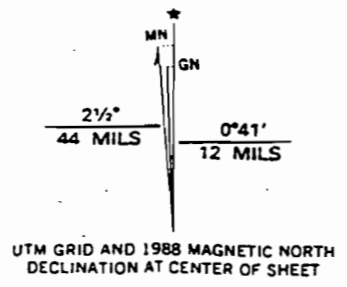
FMM1FLOW.DRW

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Environmental Engineers Orlando, Florida

FIGURE 2
USGS TOPOGRAPHICAL MAP



Mapped, edited, and published by the Geological Survey
 Control by USGS and USC&GS
 Topography from aerial photographs by Keish plotter
 Aerial photographs taken 1951. Field check 1954
 Polyconic projection. 1927 North American datum
 10,000-foot grid based on Florida coordinate system,
 west zone
 1000-meter Universal Transverse Mercator grid ticks,
 zone 17, shown in blue
 To place on the predicted North American Datum 1983,
 move the projection lines 27 meters south and
 16 meters west as shown by dashed corner ticks
 There may be private inholdings within the boundaries of
 the National or State reservations shown on this map



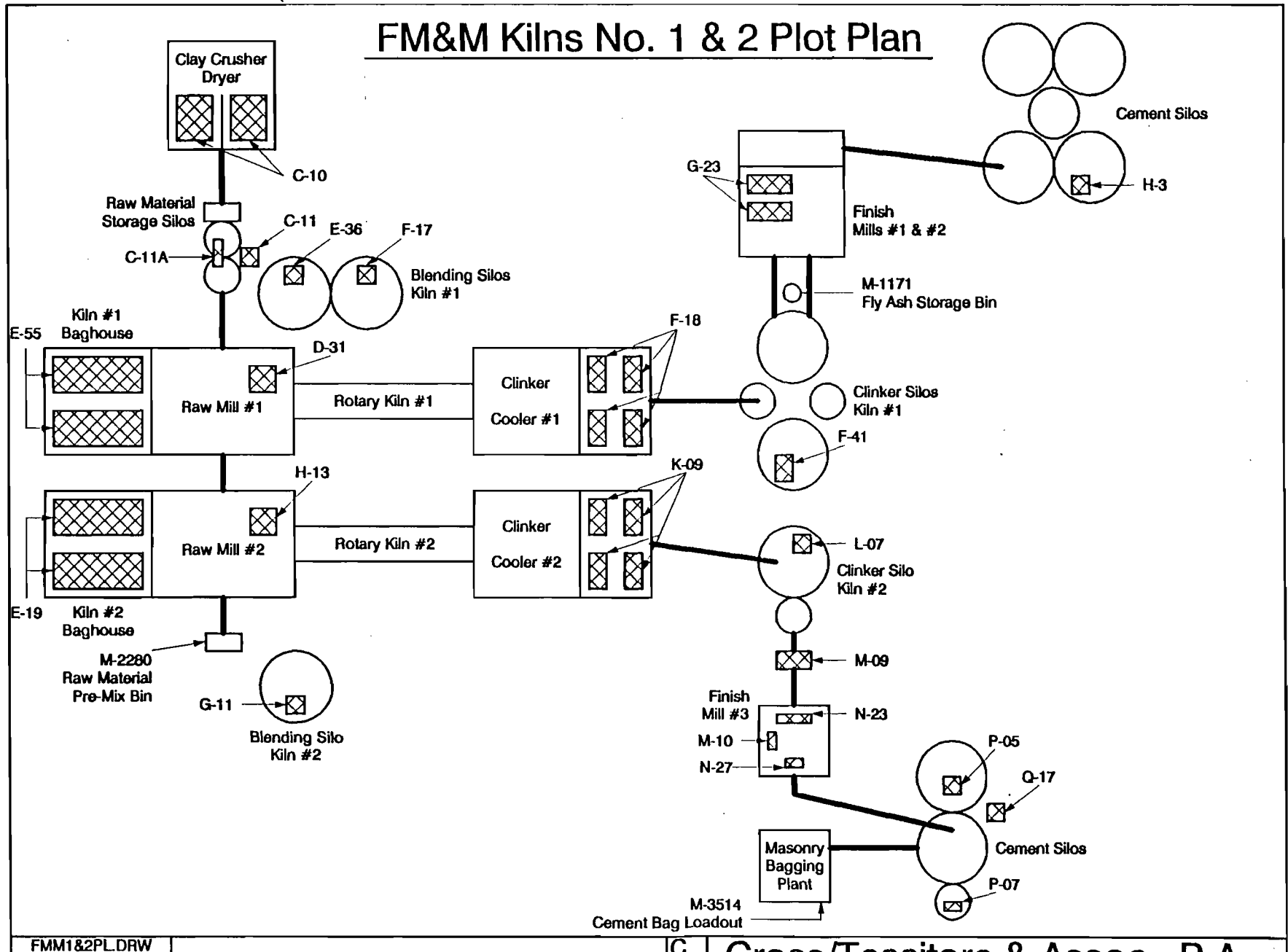
CONTOUR INTERVAL 10 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
 FOR SALE BY U.S. GEOLOGICAL SURVEY
 DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



Revisions shown in purple compiled from aerial photographs
 other sources. This information not field checked.

FIGURE V-3



27

FMM1&2PL.DRW

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