

P 938 762 651

RECEIPT FOR CERTIFIED MAIL


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

PS Form 3800, June 1985

Sent to Mr. Henry E. Andre, FM&M	
Street and No. P. O. Box 6	
P.O., State and ZIP Code Brooksville, FL 33512	
Postage	S
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	S
Postmark or Date Mailed: 8-17-89 Permit: AC 27-164224 AC 27-164225	

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

<p>3. Article Addressed to:</p> <p>Mr. Henry E. Andre Vice President Florida Mining & Materials P. O. Box 6 Brooksville, FL 33512</p>	<p>4. Article Number</p> <p>P 938 762 651</p> <p>Type of Service:</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and DATE DELIVERED.</p>
<p>5. Signature - Addressee</p> <p>X <i>Henry E. Andre</i></p>	<p>8. Addressee's Address (ONLY if requested and fee paid)</p> 
<p>6. Signature - Agent</p> <p>X</p>	
<p>7. Date of Delivery</p>	



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMITS

Mr. Henry E. Andre
Vice President
Florida Mining & Materials
Post Office Box 6
Brooksville, FL 33512


August 16, 1989

Enclosed are construction permits Nos. AC 27-164224 and AC 27-164225 to increase the operation hours of the Fly Ash Storage Bin and of the Cement Bag Loadout System at your facility in Brooksville, Florida. These permits are issued pursuant to Section 403, Florida Statutes.

Any party to these permits has the right to seek judicial review of the permits 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 these permits are filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


for C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management

Copies furnished to:

W. Thomas, SW District
G. Gonzales, CTA
P. Furman, Commenter

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 business on August 12, 1989.

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.

Maitha Alise August 17, 1989
Clerk Date

Final Determination

Florida Mining & Materials
Hernando County
Brooksville, Florida

Modification to Increase
Cement Plant Operation Hours

Permit Numbers:

AC 27-164224
AC 27-164225

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

August 14, 1989

Final Determination

The Bureau of Air Quality Management reviewed construction permit applications to increase the operation hours for the Fly Ash Storage Bin and Cement Bag Loadout System at the Florida Mining and Materials facility in Brooksville, Florida. Public Notice of the Department's Intent to Issue was published in The Sun-Journal on July 5, 1989. Copies of the Technical Evaluation and Preliminary Determination were available for public inspection at the Department's Southwest District office in Tampa and the Department's Bureau of Air Quality Management office in Tallahassee.

Comments in opposition to the proposed permits were submitted by Mr. Paul J. Furman of 13424 Brooksville Rock Road in Brooksville, Florida. The issue raised and the Department's response is set forth below:

Issue: Whether the permitted increase in hours of operation of the Fly Ash Storage Bin and Cement Bag Loadout System will result in a negligible emissions increase.

Response: These proposed construction permits increase the allowable operating time of the Fly Ash Storage Bin and the Cement Bag Loadout System from 2080 hours per year to 7,896 hours per year for the Fly Ash Storage Bin and 8,112 hours per year for the Cement Bag Loadout System. It appears that the prior operating permits did not reflect the dual-mode (loading/unloading) operation of these sources. Loading time is slightly over 2000 hours per year whereas unloading time is about 8000 hours per year. The commenter suggested that the permits limit operation time to the actual hours of material handling (i.e., loading hours). However, since loading and unloading usually occur simultaneously, and since the unloading time is greater than the time required for loading, it is reasonable that the permitted hours reflect the unloading mode of operation. The resultant increase in emissions is obviously negligible since the baghouses remove 99.97 percent of the particulate matter entrained in the air vented from the loading/unloading of these silos. Calculations show that the total increase in allowable emissions resulting from the "increased" operating hours is only 41.2 pounds per year.

Conclusion: After careful consideration of the comments received, it does not appear that modification of the proposed permits is needed. Therefore, the final action of the Department will be to issue the permits as drafted.



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Florida Mining & Materials
P. O. Box 6
Brooksville, FL 33512

Permit Number: AC 27-164224
Expiration Date: November 30, 1989
County: Hernando
Latitude/Longitude: 28°38'34"N
82°28'25"W

Project: Increase Operation Hours
of Fly Ash Storage Bin

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

For the increase in operation hours of the Fly Ash Storage Bin No. M-1171 located at the applicant's facility in Brooksville, Hernando County, Florida. The UTM coordinates of this site are Zone 17, 356.0 km E and 3,169.9 km N.

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

Attachments are listed below:

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-202(1), received on April 26, 1989.

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164224
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

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

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

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

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

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164224
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164224
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

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

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

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

(X) Compliance with New Source Performance Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164224
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

1. The modification permitted herein shall be in accordance with the capacities and specifications stated in the application.

2. The Fly Ash Storage Bin No. M-1171 shall be allowed to operate at a maximum loading/unloading rate of 30 tons per hour for up to 7,896 hours per year.

3. Visible emissions from the Fly Ash Storage Bin baghouse shall not be greater than 5% opacity and compliance shall be

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164224
Expiration Date: November 30, 1989

SPECIFIC CONDITIONS:

demonstrated at 90-100% of permitted capacity using DER Method 9 in accordance with F.A.C. Rule 17-2.700.

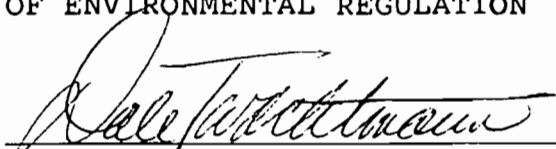
4. The compliance test shall be conducted within 30 days after operation begins and the results reported to the Department's Southwest District office before this construction permit expires. The district office shall be notified at least 15 days in advance of the test.

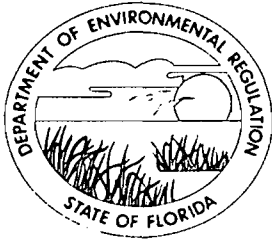
5. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the BAQM prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

6. An application for an operation permit must be submitted to the 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 15 day
of August, 1989

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Dale Twachtmann, 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

PERMITTEE:
Florida Mining & Materials
P. O. Box 6
Brooksville, FL 33512

Permit Number: AC 27-164225
Expiration Date: November 30, 1989
County: Hernando
Latitude/Longitude: 28°38'34"N
82°28'25"W

Project: Increase Operation Hours
of Cement Bag Loadout System

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

For the increase in operation hours of the Cement Bag Loadout System (Source No. M-3514) located at the applicant's facility in Brooksville, Hernando County, Florida. The UTM coordinates of this site are Zone 17, 356.0 km E and 3,169.9 km N.

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

Attachments are listed below:

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-202(1), received on April 26, 1989.

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164225
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164225
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164225
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

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

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

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

(X) Compliance with New Source Performance Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164225
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

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

SPECIFIC CONDITIONS:

1. The modification permitted herein shall be in accordance with the capacities and specifications stated in the application.
2. The Cement Bag Loadout System (Source No. M-3514) shall be allowed to operate at a maximum rate of 47 tons per hour for up to 8,112 hours per year.
3. Visible emissions from the Cement Bag Loadout baghouse shall not be greater than 5% opacity and compliance shall be

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164225
Expiration Date: November 30, 1989

SPECIFIC CONDITIONS:

demonstrated at 90-100% of permitted capacity using DER Method 9 in accordance with F.A.C. Rule 17-2.700.

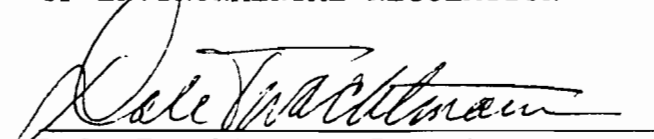
4. The compliance test shall be conducted within 30 days after operation begins and the results reported to the Department's Southwest District office before this construction permit expires. The district office shall be notified at least 15 days in advance of the test.

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

6. An application for an operation permit must be submitted to the 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 15 day
of August, 1989

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Dale Twachtmann, Secretary



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Dale Twachtmann
FROM: Steve Smallwood *by JKH*
SUBJ: Approval of Construction Permit Numbers:
AC 27-164224 and -164225, Florida Mining and Materials
DATE: August 14, 1989

Attached for your approval and signature are two permits prepared by Central Air Permitting for the above mentioned company to increase the operating hours of specific sources within their cement plant in Brooksville, Florida.

Comments were received during the public notice period.

Day 90, after which the permits will be issued by default, is September 3, 1989.

I recommend your approval and signature.

SS/JR/t

attachments

RECEIVED
AUG 14 1989

Office of the Secretary

→ P 6/5

Check Sheet

Company Name: *P.L. Mining & ~~Minerals~~ Materials*
Permit Number:
PSD Number: *AC 27-164224, -164225*
County:
Permit Engineer:
Others involved:

Application:

- Initial Application
- Incompleteness Letters
- Responses
- Final Application (if applicable)
- Waiver of Department Action
- Department Response
- Other

Intent:

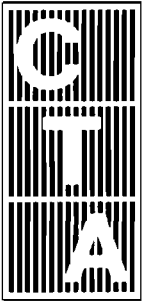
- Intent to Issue
- Notice to Public
- Technical Evaluation
- BACT Determination
- Unsigned Permit
- Correspondence with:
 - EPA
 - Park Services
 - County
 - Other
- Proof of Publication
- Petitions - (Related to extensions, hearings, etc.)
- Other

Final Determination:

- Final Determination
- Signed Permit
- BACT Determination
- Other

Post Permit Correspondence:

- Extensions
- Amendments/Modifications
- Response from EPA
- Response from County
- Response from Park Services
- Other



CROSS/TESSITORE & ASSOCIATES, P.A.

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

file copy

RECEIVED
JUL 19 1989
DER-BAQM

July 17, 1989

Mr. Bill Thomas
FDER
Twin Towers Office Bldg.
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Subject: Florida Mining & Materials; Intent to Issue
C/TA #F03.364

Dear Mr. Thomas:

Please find enclosed subject source proof of publication in accordance with our April 20, 1989 and May 22, 1989 correspondences concerning Permits No. A027-139895, A027-139896 and A027-139897. It is our understanding that the FDER-South West District will process Permit No. A027-139896.

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

Sincerely,

Greg Gonzales
Environmental Specialist

GRG/dlk
Enc.: a/s
cc: Ralph Shepard - FM&M
Jim McDonald - FDER-SW District
C0659

copied: J. Reynolds



CROSS/TESSITORE & ASSOCIATES, P.A.
4763 S. CONWAY ROAD, SUITE F
ORLANDO, FLORIDA 32812



Mr. Bill Thomas
FDER
Twin Towers Office Bldg.
2600 Blair Stone Road
Tallahassee, Florida 32399-2400



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 J. Michael Williams, 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 _____
7-5

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.

J. Michael Williams

J. Michael Williams, General Manager, The Sun-Journal and Spring Hill Sun.

Sworn to and subscribed before me this 5th day of July, 1989 A.D.

BY *Christie Frausel*

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 to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue permits to Florida Mining & Materials, U.S. Highway 98, North, Brooksville, Florida 34601, to increase the operation hours of the Fly Ash Storage Bin and Cement Bag Loadout System at the Brooksville facility (Hernando County), Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination. A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes. The Petition shall contain the following information:
(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
(d) A statement of the material facts disputed by Petitioner, if any;
(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.
If a petition is filed, the administrative hearing process is designed to

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 normal 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 Quality Management 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.
PUBLISH: July 5, 1989

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

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Initial

Date

2.

Clavin

Initial

Date

3.

Initial

Date

4.

Initial

Date

REMARKS:

*Rep Chuck Smith
State Rep - Brooksville
Wants to know about
FL Mining and Materials
his #C. 621-5118*

INFORMATION

Review & Return

Review & File

Initial & Forward

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

FROM:

DATE

Aug 8

PHONE

W

1

RECEIVED

JUL 19 1989

... DAL

13424 Brooksville Rock Road
Brooksville, Florida 34614
July 17, 1989

Mr. Bill Thomas
Florida Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: Notice Of Intent To Issue - Florida Mining and Materials -
Hernando County

Dear Mr. Thomas:

Thank you for the information you shared with me during our recent telephone conversation regarding the proposed modification to an air quality permit at Florida Mining and Materials in Hernando County. As I mentioned to you, I first became aware of this modification after reading the "Notice Of Intent To Issue" published July 5 in the Brooksville Sun Journal. As we also discussed, I would like FDER to consider my comments and questions regarding the proposal.

I am completely baffled as to the justification for this permit modification. Since there are 8760 hours in a year, the proposed new limit on hours of operation (8112 hrs/yr for cement bag loadout and 7879 hrs/yr for fly ash storage bin) will allow the handling of the subject materials more than 90% of the time. Since there are no apparent restrictions on the daily hours of operation, why not establish a ceiling closer to the actual hours of materials handling? If there are virtually no restrictions, then the entire basis for the regulation and permitting of this aspect of the cement manufacturing process is questionable.

Is there a permit requirement for record keeping of the actual hours of operation or are the figures used just estimates?

Please compare the presently approved/permitted hours of operation with those being proposed in the permit modification. If the proposed increase in actual hours of operation is still within the presently approved limit, then, possibly, a permit modification is not necessary. I would like to know the presently approved/permitted hours of operation.

I suggest that the past operating record of the FM&M cement plant, including any noted air quality violations, be considered by FDER in reviewing this application.

If possible, I would like to have a copy of the "Technical Evaluation Preliminary Determination" prepared by FDER staff for this application.

13424 Brooksville Rock Road
Brooksville, Florida 34614




Mr. Bill Thomas
Florida Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, FL 32399-2400

In general, I am opposed to the modification of this permit because it would unnecessarily allow increased emissions and may also lead to the further unwarranted modification of other regulated aspects of the cement manufacturing process at Florida Mining and Materials

Thank you for your consideration.

Sincerely,

A handwritten signature in cursive script that reads "Paul J. Furman".

Paul J. Furman

cc: John Reynolds
CJF/BT

P 938 762 596

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, June 1985

Sent to Mr. Henry E. Andre, FM&M	
Street and No. P.O. Box 6	
P.O., State and ZIP Code Brooksville, FL 33512	
Postage	S
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	S
Postmark or Date Mailed: 6-20-89 Permit: AC 27-164224 AC 27-164225	

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

<p>3. Article Addressed to:</p> <p>Mr. Henry E. Andre Vice President Florida Mining & Materials P.O. Box 6 Brooksville, FL 33512</p>	<p>4. Article Number</p> <p>P 938 762 596</p> <p>Type of Service:</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and <u>DATE DELIVERED</u>.</p>
<p>5. Signature - Address</p> <p>X) <i>Robert K. Ellis</i></p>	<p>8. Addressee's Address (ONLY if requested and fee paid)</p>
<p>6. Signature - Agent</p> <p>X</p>	
<p>7. Date of Delivery</p> <p>6-23-89</p>	



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

June 20, 1989

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Henry E. Andre
Vice President
Florida Mining & Materials
P. O. Box 6
Brooksville, Florida 33512

Dear Mr. Andre:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permits for Florida Mining & Materials to increase the operation hours of the Fly Ash Storage Bin and Cement Bag Loadout System at the Brooksville facility.

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 Quality Management.

For amendment of permit No. AO 27-139896, please contact the DER Southwest District office.

Sincerely,

C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/JR/plm

Attachments

cc: W. Thomas, SW District
G. Gonzales, CTA

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of
Application for Permit by:

Florida Mining & Materials
P. O. Box 6
Brooksville, Florida 33512

DER File Nos. AC 27-164224
AC 27-164225

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue permits (copies attached) for the proposed modification 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 & Materials, applied on April 26, 1989, to the Department of Environmental Regulation for permits to increase the operation hours of the Fly Ash Storage Bin and Cement Bag Loadout System at the Brooksville facility (Hernando County), Florida.

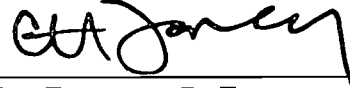
The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit is required for the proposed work.

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.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

0
Copies furnished to:

W. Thomas, SW District
G. Gonzales, CTA

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 6-21-89.

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

Martha J. Wise 6-21-89
Clerk Date

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

The Department of Environmental Regulation hereby gives notice of its intent to issue permits to Florida Mining & Materials, U.S. Highway 98 North, Brooksville, Florida 33512, to increase the operation hours of the Fly Ash Storage Bin and Cement Bag Loadout System at the Brooksville facility (Hernando County), Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

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

The Petition shall contain the following information:

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

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 applicant 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.

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 normal 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 Quality Management
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 & Materials
Hernando County
Brooksville, Florida

Modification to Increase
Cement Plant Operation Hours

Permit Numbers:

AC 27-164224
AC 27-164225

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

June 14, 1989

I. Application Information

A. Applicant
Florida Mining and Materials
P. O. Box 6
Brooksville, Florida 33512

B. Request

The Department received two permit applications on April 26, 1989, for the applicant to increase the operating hours for the Fly Ash Storage Bin and Cement Bag Loadout System at the applicant's cement manufacturing facility in Brooksville, Florida. The applications were deemed complete on May 25, 1989.

C. Location/Classification

The applicant's cement plant (SIC Code 3241) is located off U.S. Highway 98 southwest of Skinner Lake near Brooksville. Latitude and longitude are 28°38'34"N and 82°28'25"W respectively. UTM coordinates of the site are: Zone 17, 356.0 Km E and 3,169.9 Km N.

II. Project Description/Emissions

The applicant proposes to increase the operation hours for the existing Fly Ash Storage Bin (Source No. M-1171) and Cement Bag Loadout System (Source No. M-3514). Since these sources are controlled by high efficiency fabric filters, the actual increase in particulate matter emissions will be very small as shown below:

<u>Source</u>	<u>Current Actual (TPY)</u>	<u>New Actual (TPY)</u>	<u>Increase (TPY)</u>
Fly Ash Storage Bin	.0067	.0260	.0193
Cement Bag Loadout	.0004	.0017	.0013

III. Rule Applicability

The applicant's proposed modification is subject to review under provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Rules 17-2 and 17-4. The proposal is exempt from the new source review requirements of F.A.C. Rule 17-2.500 because it does not result in a significant net increase in emissions. Applicable rules are F.A.C. Rule 17-2.520, Sources Not Subject to Prevention of Significant Deterioration or Non attainment Requirements, F.A.C. Rule 17-2.660 (New Source Performance Standards for Portland Cement Plants contained in 40 CFR 60, Subpart F), and F.A.C. Rule 17-2.700(3)(d) (alternative 5% opacity standard for baghouse-controlled sources). The federal new source performance standard (10% opacity) would be controlling except that the state standard (5% opacity) is more stringent and therefore applies.

IV. Conclusion

Based on the information provided by Florida Mining and Materials, the Department has reasonable assurance that the proposed permit modification to increase operation hours, 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.





Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Florida Mining & Materials
P. O. Box 6
Brooksville, FL 33512

Permit Number: AC 27-164224
Expiration Date: November 30, 1989
County: Hernando
Latitude/Longitude: 28°38'34"N
82°28'25"W

Project: Increase Operation Hours
of Fly Ash Storage Bin

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

For the increase in operation hours of the Fly Ash Storage Bin No. M-1171 located at the applicant's facility in Brooksville, Hernando County, Florida. The UTM coordinates of this site are Zone 17, 356.0 km E and 3,169.9 km N.

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

Attachments are listed below:

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-202(1), received on April 26, 1989.

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164224
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164224
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164224
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

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

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

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- (X) Compliance with New Source Performance Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164224
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

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

SPECIFIC CONDITIONS:

1. The modification permitted herein shall be in accordance with the capacities and specifications stated in the application.
2. The Fly Ash Storage Bin No. M-1171 shall be allowed to operate at a maximum loading/unloading rate of 30 tons per hour for up to 7,896 hours per year.
3. Visible emissions from the Fly Ash Storage Bin baghouse shall not be greater than 5% opacity and compliance shall be

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164224
Expiration Date: November 30, 1989

SPECIFIC CONDITIONS:

demonstrated at 90-100% of permitted capacity using DER Method 9 in accordance with F.A.C. Rule 17-2.700.

4. The compliance test shall be conducted within 30 days after operation begins and the results reported to the Department's Southwest District office before this construction permit expires. The district office shall be notified at least 15 days in advance of the test.

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

6. An application for an operation permit must be submitted to the 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 _____, 1989

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Dale Twachtmann, Secretary



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Florida Mining & Materials
P. O. Box 6
Brooksville, FL 33512

Permit Number: AC 27-164225
Expiration Date: November 30, 1989
County: Hernando
Latitude/Longitude: 28°38'34"N
82°28'25"W

Project: Increase Operation Hours
of Cement Bag Loadout System

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

For the increase in operation hours of the Cement Bag Loadout System (Source No. M-3514) located at the applicant's facility in Brooksville, Hernando County, Florida. The UTM coordinates of this site are Zone 17, 356.0 km E and 3,169.9 km N.

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

Attachments are listed below:

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-202(1), received on April 26, 1989.

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164225
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164225
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164225
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

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

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

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- (X) Compliance with New Source Performance Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164225
Expiration Date: November 30, 1989

GENERAL CONDITIONS:

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

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

SPECIFIC CONDITIONS:

1. The modification permitted herein shall be in accordance with the capacities and specifications stated in the application.
2. The Cement Bag Loadout System (Source No. M-3514) shall be allowed to operate at a maximum rate of 47 tons per hour for up to 8,112 hours per year.
3. Visible emissions from the Cement Bag Loadout baghouse shall not be greater than 5% opacity and compliance shall be

PERMITTEE:
Florida Mining & Materials

Permit No. AC 27-164225
Expiration Date: November 30, 1989

SPECIFIC CONDITIONS:

demonstrated at 90-100% of permitted capacity using DER Method 9 in accordance with F.A.C. Rule 17-2.700.

4. The compliance test shall be conducted within 30 days after operation begins and the results reported to the Department's Southwest District office before this construction permit expires. The district office shall be notified at least 15 days in advance of the test.

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

6. An application for an operation permit must be submitted to the 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 _____, 1989

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Dale Twachtmann, Secretary

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No. 135469

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Florida Mining & Materials Date 5-1-89

Address PO Box 6 Brooksville, 34605 Dollars \$ 200.00

Applicant Name & Address Same

Source of Revenue M-1171 Baghouse

Revenue Code 1031 Application Number AC 27-164224

ck 4252 By Alvina King

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No. 135469

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Florida Mining & Materials Date 5-1-89

Address PO Box 6 Brooksville, 34605 Dollars \$ 200.00

Applicant Name & Address Same

Source of Revenue M-1171 Baghouse

Revenue Code 1031 Application Number AC 27-164224

ck 4252 By Alvina King

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION **Nº 135470**

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Florida Mining + Materials Date 5-1-89
Address PO Box 6 Brooksville 34605 Dollars \$ 200.00
Applicant Name & Address Same
Source of Revenue M-3514 Baghouse
Revenue Code 1031 Application Number AC27-164225
ck 4251 By Alvina King

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION **Nº 135470**

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Florida Mining + Materials Date 5-1-89
Address PO Box 6 Brooksville 34605 Dollars \$ 200.00
Applicant Name & Address Same
Source of Revenue M-3514 Baghouse
Revenue Code 1031 Application Number AC27-164225
ck 4251 By Alvina King



CROSS/TESSITORE & ASSOCIATES, P.A.

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

RECEIVED
MAY 8 1989

April 20, 1989

DER-BAQM

D.E.R.

APR 26 1989

SOUTHWEST DISTRICT
TAMPA

Mr. Jim McDonald, c/o Rama Iyer
DER-Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347

Subject: Florida Mining & Materials
C/TA #F03.364

Dear Mr. Iyer:

This correspondence addresses subject source permit Nos. A027-139895; A027-139896; and A027-139897.

On behalf of our client, Florida Mining & Materials, we are requesting an increase in operating time on these three (3) permitted sources.

Please find enclosed:

- 1) Modification application to construct air pollution sources on existing permit Nos. A027-139895; and A027-139897.

Note that inadvertently, the FDER had restricted the operating hours on permit No. A027-139896 to 2080 hr/yr. We originally requested and was granted in the construction permit, 8112 hr/yr. We are requesting that this oversight be corrected.

- 2) Two (2) checks in the amount of \$200.00 each, made payable to the FDER, for the application fees.

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

Sincerely,

Gregory R. Gonzales
Environmental Specialist

GG/dk
cc: Ralph Shepard-FM&M
Enc.: a/s
R0123

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)	Initial
<i>Mr. Clair Foney, P.E.</i>	Date
2.	Initial
<i>Air Resource Management</i>	Date
3.	Initial
<i>DER - Tallahassee</i>	Date
4.	Initial
<i>Twin Towers Office Building</i>	Date

REMARKS:

We will take care of the amendment to A027-139896.

INFORMATION

- Review & Return
- Review & File
- Initial & Forward

RECEIVED

MAY 8 1989

DER-BAQM

DISPOSITION

- Review & Respond
- Prepare Response
- For My Signature
- For Your Signature
- Let's Discuss
- Set Up Meeting
- Investigate & Report
- Initial & Forward
- Distribute
- Concurrence
- For Processing
- Initial & Return

FROM:

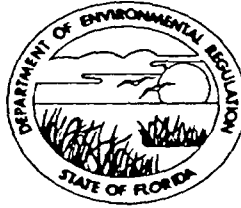
Jim McDonald

DATE

5-1-89

PHONE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
TAMPA, FLORIDA 33610-7347

813-623-5561
Suncom—552-7612

BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

PERMITTEE:

Florida Mining & Materials
P.O. Box 6
Brooksville, FL 33512

PERMIT/CERTIFICATION

Permit No.: AO27-139897
County: Hernando
Expiration Date: 12-18-92
Project: Fly Ash Storage Bin

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

For the operation construction of a fly ash storage bin controlled by an AAF-Fabri-Pulse 12-144 baghouse. Fly ash, used in making cement, is pneumatically loaded into a storage bin.

Location: U.S. Highway 98 North, N.W. of Brooksville

UTM: 17-356.00E 3169.89N NEDS NO: 0010 Point ID: 25

Replaces Permit No.: AC27-131359

14. (con't)

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

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

1. Test the emissions for the following pollutant(s) at intervals of 12 months from the date August 19, 1987 and submit a copy of test data to the Air Section of the Southwest District Office within forty five days of such testing (Subsection 17-2.700 (2), Florida Administrative Code (F.A.C.)).

- (X) Particulates () Sulfur Oxides () Fluorides
() Nitrogen Oxides (X) Opacity () Hydrocarbons

PERMITTEE:
Florida Mining & Materials

Permit No.: AO27-139897
Project: Fly Ash Storage Bin

2. Particulate emissions from this source shall be limited to 0.02 grains per dscf, 2.57 lbs/hr based on a design flow of 15,000 dscfm, and 2.14 TPY.

3. This source is subject to the New Source Performance Standards for Portland Cement Plants contained in 40 CFR 60 Subpart F which is adopted by reference in Section 17-2.660, F.A.C. The visible emissions from this source shall not exhibit a 10% opacity or greater. All the notification and reporting requirements of 40 CFR 60 apply to this source.

4. Compliance with the emission limitations of Specific Conditions Nos. 2 and 3 shall be determined using EPA Methods 1, 2, 4, 5, and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

5. Because of the expense and complexity of conducting a stack test on minor sources of particulate matter, the Department pursuant to the authority granted under Subsection 17-2.700(3)(d), F.A.C. hereby waives the requirement for a stack test. The alternative standard set forth by this provision establishes a visible emission limitation not to exceed an opacity of 5%.

6. The maximum process rate for this source shall not exceed 500,000 lbs/hr.

7. The Southwest District Office of the Department of Environmental Regulation shall be notified in writing 15 days prior to compliance testing.

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

(A) Annual amount of materials and/or fuels utilized.

(B) Annual emissions (note calculation basis).

(C) Any changes in the information contained in the permit application.

9. Operation of this source, as stated in the application, shall not exceed 2080 hours/yr to show compliance with the yearly allowable emissions rates stated in the application.

PERMITTEE:
Florida Mining & Materials

Permit No.: AO27-139897
Project: Fly Ash Storage Bin

10. The baghouse shall be properly maintained to operate at approximately the efficiency specified in the application.

11. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Subsection 17-2.610 (3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.

12. An application to renew this operating permit shall be submitted to the Department sixty (60) days prior to the expiration date of this permit.

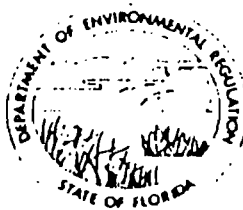
Issued this 22 day of Dec.
1987.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard D. Garrity, Ph.D.
District Manager

BEST AVAILABLE COPY STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



AC27-164224

D.E.R.

APR 26 1989

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCE IN SOURCE DISTRICT

SOURCE TYPE: Cement Manufacturing [] New¹ [x] Existing^{TAMPA}

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

COMPANY NAME: Florida Mining & Materials COUNTY: Hernando

Identify the specific emission point source(s) addressed in this application (i.e. Line Source #M-1171
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Baghouse

SOURCE LOCATION: Street U.S. Highway 98N City Brooksville

UTM: East 17-356.005E North 3169.89N

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

APPLICANT NAME AND TITLE: Henry E. Andre, Vice President

APPLICANT ADDRESS: P.O. Box 6, Brooksville, Florida 33512

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

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

I certify that the statements made in this application for a Modification of Existing 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

Henry E. Andre, Vice President
Name and Title (Please Type)

Date: 4-18-89 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)

**MOORE
McCORMACK** RESOURCES

Moore McCormack Resources, Inc.
P.O. Box 23965
Tampa, FL 33630
813 933 6711

September 20, 1988

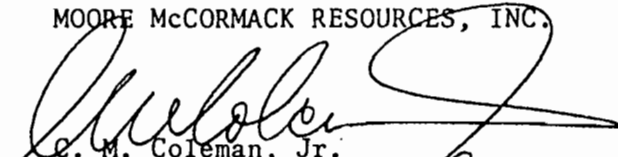
TO WHOM IT MAY CONCERN:

This letter authorizes Henry E. Andre, Vice President, Operations Moore McCormack Resources, Inc. d/b/a/ Florida Mining & Materials, Post Office Box 6, Brooksville, Florida 34605, to apply for any and all permits required for the following operating Divisions of the Company:

- Brooksville Cement
- Jacksonville Cement Terminal
- Brooksville Rock
- Babcock Aggregates
- DeVane Silica Mining
- Van Fleet Sand

Sincerely,

MOORE McCORMACK RESOURCES, INC.



C. M. Coleman, Jr.
Vice President/General Manager

CMC:pn

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 *Frank L. Cross, Jr.*
Frank L. Cross, Jr., P.E., President
 Name (Please Type)

Cross/Tessitore & Associates; P.A.
 Company Name (Please Type)

4763 S. Conway Road, Orlando, Florida 32812
 Mailing Address (Please Type)

Florida Registration No. 7916 Date: 4-24-89 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.

This project involves the loading of fly ash into a storage bin. The fly ash is used in making cement. Emissions from this operation are controlled by an American Air Filter Fabri-Pulse 12-144 dust collector which provides an efficiency of 99.97% and results in full compliance with FDER regulations (Cont See Section II Attachment A

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

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

American Air Filter Fabri-Pulse 12-144 dust collector \$15,553.00

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.
Permit No. A027-139897 issued: 12-22-87
expired : 12-18-92

BEST AVAILABLE COPY

E. Requested permitted equipment operating time: hrs/day 21.6 ; days/wk 7 ; wks/yr 52 ;
if power plant, hrs/yr _____ ; if seasonal, describe: _____ hrs./yr. _____
Bin is loaded in approximately 45 minutes; 8 times/day; 6 hr/day; 7 day/wk
52 wk/yr Totaling 2184 hr/yr. The bin is unloaded 21.6 hr/day; 7 day/wk
52 wk/yr Totaling 7896 hr/yr.

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? N/A

b. If yes, has "Lowest Achievable Emission Rate" been applied? N/A

c. If yes, list non-attainment pollutants. N/A

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? NO

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? N/A

b. If yes, in addition to the information required in this form,
any information requested in Rule 17-2.650 must be submitted.

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Mt		
Fly ash	Particulates	.1	60,000	

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

1. Total Process Input Rate (lbs/hr): 60,000
2. Product Weight (lbs/hr): 60,000

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 ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual 1/yr			lbs/hr	1/yr	
Particulate ⁽⁵⁾	2.2×10^{-3}	2.0×10^{-3}	17-2.610(2)	29.6	7.2	7.9	
Particulate ⁽⁶⁾	6.5×10^{-3}	2.6×10^{-2}	" "	" "	2.2	8.5	

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable standard.

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

5. Particulate emissions from bin loading.

6. Particulate emissions from bin unloading.

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)
AAF Fabir-Pulse				
Model 12-144 Dust Collector	Particulate	99.97%	> 1 Micron	Manufacturer's Data

E. Fuels N/A

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:

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 N/A Maximum N/A

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

N/A

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

Stack Height: 32 ft. Stack Diameter: Square 21 3/4"x 28 7/8" ft.
 Gas Flow Rate: 15,000 ACFM 15,000 DSCFM Gas Exit Temperature: 70 °F.
 Water Vapor Content: Negligible % Velocity: 60.9 FPS
 See section III H attachment

SECTION IV: INCINERATOR INFORMATION N/A

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

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

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

Manufacturer: _____

Date Constructed _____ Model No. _____

	Volume (ft) ³	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

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

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

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

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

Brief description of operating characteristics of control devices: Fly Ash is pneumatically loaded into a storage bin silo by a tanker truck. Air is displaced in the silo and vents through a stack. Particulates in the displaced air are collected in the AAF dust collector.

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

The collected fly ash is returned to the silo.

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

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

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

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

Yes No

Contaminant	Rate or Concentration

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

Yes No

Contaminant	Rate or Concentration

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

Contaminant	Rate or Concentration

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

- | | |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:* | 4. Capital Costs: |

*Explain method of determining

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

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

Contaminant	Rate or Concentration

10. Stack Parameters

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

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

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

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

¹Explain method of determining efficiency.

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

j. Applicability to manufacturing processes:

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

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

f. Describe the control technology selected:

1. Control Device:

2. Efficiency:¹

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:²

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KW/H design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

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

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A

A. Company Monitored Data

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

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

2. Instrumentation, Field and Laboratory

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

b. Was instrumentation calibrated in accordance with Department procedures?

[] Yes [] No [] Unknown

B. Meteorological Data Used for Air Quality Modeling

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

2. Surface data obtained from (location) _____

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

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

C. Computer Models Used

1. _____ Modified? If yes, attach description.

2. _____ Modified? If yes, attach description.

3. _____ Modified? If yes, attach description.

4. _____ Modified? If yes, attach description.

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

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO ²	_____ grams/sec

E. Emission Data Used in Modeling

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

F. Attach all other information supportive to the PSD review.

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

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

FLORIDA MINING & MATERIALS

SECTION II, ATTACHMENT A

This source was previously permitted to operate 2080 hrs/yr. The purpose of this modification to the existing permit is to increase the operational time. The fly ash storage bin system will operate in two cycles.

- 1) The bin silo will be pneumatically loaded by a tanker 6 hrs/day; 7 day/wk; 52 wks/yr, totaling 2184 hr/yr. The particulate emissions from this cycle are addressed in this application
- 2) The bin silo will also be unloaded 21.6 hr/day; 7 day/wk; 52 wk/yr, totaling 7896 hrs/yr. The particulate emissions from this cycle are addressed in this application.

The total particulate emissions from the operation of the bin silo process are negligible resulting in:

0.00864 lb/hr uncontrolled particulate
0.028 ton/yr uncontrolled particulate

FLORIDA MINING & MATERIALS

SECTION III ATTACHMENT

ITEM H Emission Stack Geometry And Flow Characteristics

Assumptions

Stack area = 21 3/4" X 28 7/8"

Gas flow rate = 15,000 CFM

$$21 \frac{3}{4}'' = 21 \frac{6}{8}'' / 144'' = 4.1 \text{ ft}^2$$

$$V = \frac{\text{ft}^3/\text{min}}{A \text{ (ft}^2\text{)}} = \frac{\text{ft}/\text{min}}{60 \text{ sec}} = \text{ft}/\text{sec}$$

$$V = \frac{15,000 \text{ ft}^3/\text{min}}{4.1 \text{ ft}^2} = \frac{3,658.5 \text{ ft}/\text{min}}{60 \text{ sec}} = 60.9 \text{ ft}/\text{sec}$$

TABLE 8.10-1. UNCONTROLLED PARTICULATE EMISSION FACTORS FOR CONCRETE BATCHING

Source	kg/Mg of material	lb/ton of material	lb/yd ³ of concrete ^a	Emission Factor Rating
Sand and aggregate transfer to elevated bin ^b	0.014	0.029	0.05	E
Cement unloading to elevated storage silo				
Pneumatic ^c	0.13	0.27	0.07	D
Bucket elevator ^d	0.12	0.24	0.06	E
Weigh hopper loading ^e	0.01	0.02	0.04	E
Truck loading (truck mix) ^e	0.01	0.02	0.04	E
Mixer loading (central mix) ^e	0.02	0.04	0.07	E
Vehicle traffic (unpaved road) ^f	4.5 kg/VKT	16 lb/VMT	0.28	C
Wind erosion from sand and aggregate storage piles ^h	3.9 kg/hectare/day	3.5 lb/acre/day	0.1 ⁱ	D
Total process emissions (truck mix) ^j	0.05	0.10	0.20	E

^aBased on a typical yd³ weighing 1,818 kg (4,000 lb) and containing 227 kg (500 lb) cement, 564 kg (1,240 lb) sand, 864 kg (1,900 lb) coarse aggregate and 164 kg (360 lb) water.

^bReference 6.

^cFor uncontrolled emissions measured before filter. Based on two tests on pneumatic conveying controlled by a fabric filter.

^dReference 7. From test of mechanical unloading to hopper and subsequent transport of cement by enclosed bucket elevator to elevated bins with fabric socks over bin vent.

^eReference 5. Engineering judgement, based on observations and emission tests of similar controlled sources.

^fFrom Section 11.2.1, with $k = 0.8$, $s = 12$, $S = 20$, $W = 20$, $w = 14$, and $p = 100$. VKT = vehicle kilometers traveled. VMT = vehicle miles traveled.

^gBased on facility producing 23,100 m³/yr (30,000 yd³/yr), with average truck load of 6.2m³ (8 yd³) and plant road length of 161 meters (1/10 mile).

^hFrom Section 8.19.1, for emissions <30 μ m for inactive storage piles.

ⁱAssumes 1,011 m² (1/4 acre) of sand and aggregate storage at plant with production of 23,100 m³/yr (30,000 yd³/yr).

^jBased on pneumatic conveying of cement at a truck mix facility. Does not include vehicle traffic or wind erosion from storage piles.

FLORIDA MINING & MATERIALS
SUPPLEMENTAL REQUIREMENTS
SECTION V

ITEM 1 Process Input Rate

Assumptions

Bin loading input rate = 26 ton/45 min = 30 ton/hr (60,000 lb/hr) from tanker

No. of loadings from tanker = 8

Loadings from tanker = 6.0 hr/day x 7 day/wk
x 52 wk/yr (2184 hr/yr)

Bin Loading

30 ton/hr x 6 hr/day = 180 ton/day
30 ton/hr x 2184 hr/yr = 65,520 ton/yr

ITEMS 2 & 3 Uncontrolled Particulate Emissions Calculations
Bin Loading

Assumptions

Bin input rate = 30 ton/hr (60,000 lb/hr)
Operating hours = 6 hr/day x 7 day/wk x 52 wk/yr (2184 hr/yr)
Baghouse efficiency = 99.97%
Emission Factor = .024 lb/ton of material (as per AP-42 Table 8.10-1)

Actual Emissions

30 ton/hr x 0.24 lb/ton = 7.2 lb/hr (1 - .9997) = 0.00216 lb/hr x 2184 hr/yr / 200 lb/ton = 0.002 ton/yr uncontrolled particulate.

Potential Emissions

30 ton/hr x 0.24 lb/ton = 7.2 lb/hr x 2184 hr/yr / 2000 lb/ton = 7.9 ton/yr uncontrolled particulate

Allowable Emissions

P = 30 ton/hr

E = $3.59 (P)^{0.62}$ where $P \leq 30$ ton/hr

E = $3.59 (30)^{0.62}$

E = 29.6 lb/hr

Bin Unloading

Assumptions

Bin unloading rate = 8 ton/hr (21.6 hr/day)

Operating hours = 7896 hr/yr

Baghouse efficiency = 99.97%

Emission factor = 0.27 lb/ton of material (as per AP-42, Table 8.10-1)

Actual Emissions

8 ton/hr x 0.27 lb/ton = 2.16 lb/hr (1 - .9997) = 0.00648

lb/hr x 7896 hr/yr / 2000 lb/ton = 0.026 ton/yr uncontrolled particulate.

Potential Emissions

8 ton/hr x 0.27 lb/ton = 2.16 lb/hr x 7896 hr/yr / 2000 lb/ton = 8.5 ton/yr uncontrolled particulate

Total Uncontrolled Emissions From Bin Operations

Actual Emissions

Bin loading emissions rate = 0.00216 lb/hr (0.002 ton/yr)

Bin unloading emission rate = 0.00648 lb/hr (0.026 ton/yr)

0.00216 lb/hr + 0.00648 lb/hr = 0.00864 lb/hr uncontrolled particulate

0.002 ton/yr + 0.026 ton/yr = 0.028 uncontrolled particulate

Potential Emissions

Assumptions

Bin loading emission rate = 7.2 lb/hr (6.0 ton/yr)

Bin unloading emission rate = 2.2 lb/hr (8.5 ton/yr)

7.2 lb/hr + 2.2 lb/hr = 9.4 lb/hr uncontrolled particulate

6.0 ton/yr + 8.5 ton/yr = 14.5 ton/yr uncontrolled particulate.

ITEM 4 Air Pollution Control System

Assumptions

Filter area = 2309 ft²
Air flow rate = 15,000 ft³

$$\frac{15,000 \text{ ft}^3}{2,309 \text{ ft}^2} = 6.5$$

Air to cloth ratio 6.5 to 1

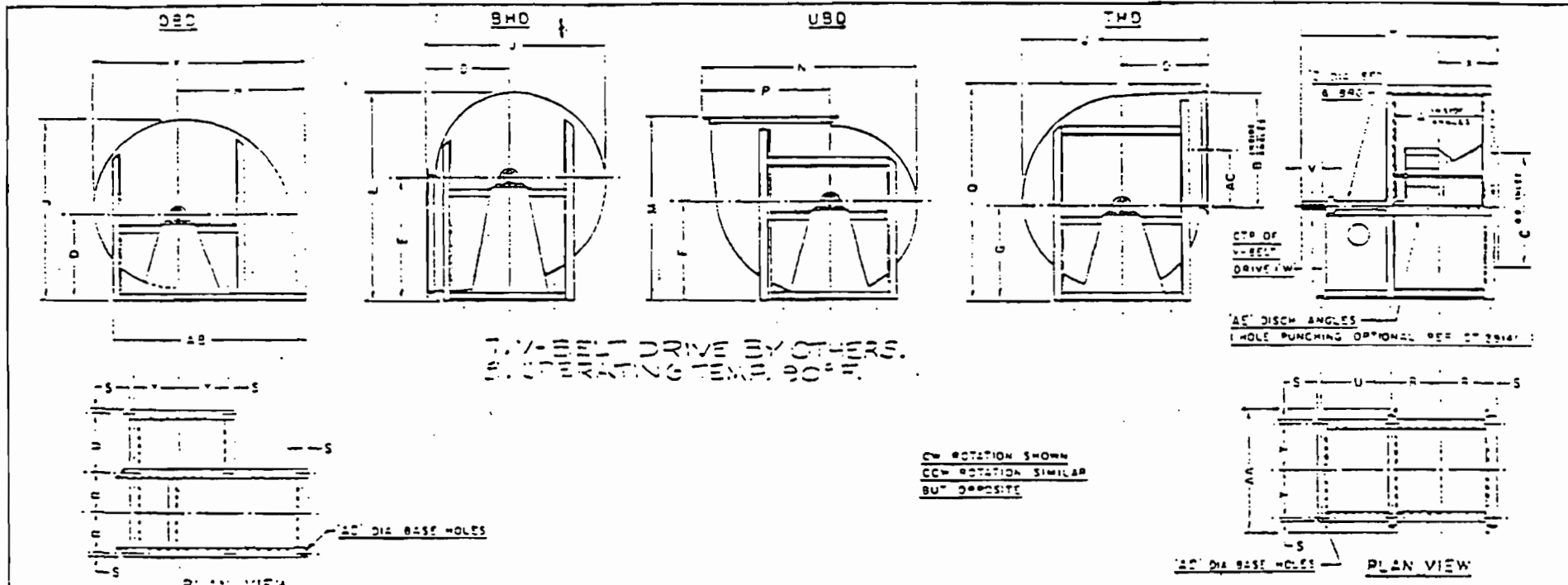
ITEM 5 Control Device Efficiency

Assumptions

Baghouse efficiency = 99.97%
Bin loading actual emissions = 0.00216 lb/hr
Bin loading potential emissions = 7.2 lb/hr

$$\text{Efficiency} = \frac{\text{Potential} - \text{Actual}}{\text{Potential}} \times 100$$

$$\frac{7.2 \text{ lb/hr} - 0.00216 \text{ lb/hr}}{7.2 \text{ lb/hr}} \times 100 = 99.97\%$$



NOTE FOR COMPLETE PRODUCT DESCRIPTION REFERENCE BULLETIN 4007

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	
200	16 1/2	21 1/2	21 1/2	16	24	18 1/2	16 1/2	22 1/2	33 1/2	38 1/2	39 1/2	34 1/2	36 1/2	22 1/2	39 1/2	9 1/2	8	39	15	4 1/2	2 1/2	11 1/2	10 1/2	1 1/2	1 1/2	29	37 1/2	10 1/2	1 1/2	1 1/2
222	17 1/2	23 1/2	23 1/2	16	26 1/2	20 1/2	18	26 1/2	37 1/2	43 1/2	43 1/2	38 1/2	42 1/2	25 1/2	43 1/2	10 1/2	1 1/2	43 1/2	17	8	2 1/2	12 1/2	11 1/2	1 1/2	1 1/2	32 1/2	42 1/2	11 1/2	1 1/2	2 x 2
245	19 1/2	25 1/2	26 1/2	19 1/2	28 1/2	22 1/2	20	25 1/2	40 1/2	47 1/2	47 1/2	42	46 1/2	28	48	11 1/2	1 1/2	48	18 1/2	6	3	13 1/2	12 1/2	2 1/2	2 1/2	34 1/2	45 1/2	12 1/2	1 1/2	2 x 2
270	21 1/2	28 1/2	28 1/2	21 1/2	31 1/2	24 1/2	22	31 1/2	44 1/2	51 1/2	52 1/2	46 1/2	51 1/2	30 1/2	52 1/2	12 1/2	1 1/2	52	20 1/2	6	3	14 1/2	13 1/2	2 1/2	2 1/2	37 1/2	48 1/2	14 1/2	1 1/2	2 x 2
300	23 1/2	32 1/2	32 1/2	24	34 1/2	27 1/2	24 1/2	34 1/2	49 1/2	57 1/2	57 1/2	51 1/2	56 1/2	33 1/2	58 1/2	13 1/2	1 1/2	58 1/2	22 1/2	7	3 1/2	15 1/2	15 1/2	2 1/2	2 1/2	42 1/2	52 1/2	15 1/2	1 1/2	2 x 2

EQUIPMENT REQUIRED

TAG UNIT	SIZE	ROTATION	DISCHARGE	C.F.M.	SP	R.P.M.	BHP	TIP SPEED	O.V.	MOTOR FRAME	
45-10492	270	CW	THD	15000	12	2150	33.31	13210	3580	50	326T
45-10492	222	CCW	THD	10000	12	2643	25.63	15410	3510	40	324T

JOB FLA. MINING	ACCESSORIES REQ'D: 1. BOLTED ON HINGED ACCESS DOOR. 2. DRAIN CONNECTION. 3. TOTALLY ENCLOSED BELT GUARD. 4. UNIT 45-10492 SHAFTGUARD DWS. NO. 333432 5. UNIT NO. 45-10492 SHAFTGUARD DWG NO. 333431. 6. 1750RPM, TEFC, MTR. BY OTHERS.
LOCATION BROOKSVILLE, FLA.	<p>BARRY BLOWER A Division of Ingersoll Rand Inc. P.O. Box 117000 Minneapolis, MN 55412</p> <p>GENERAL DIMENSIONAL DATA TYPE BBC, SERIES 7C, NON-OVERLOADING ARRANGEMENT No. 1, CLASS III</p>
CUST. / CONTRACTOR FLA. MINING	
ARCH. / ENG FLA. MINING	
CUST. PC 2095	

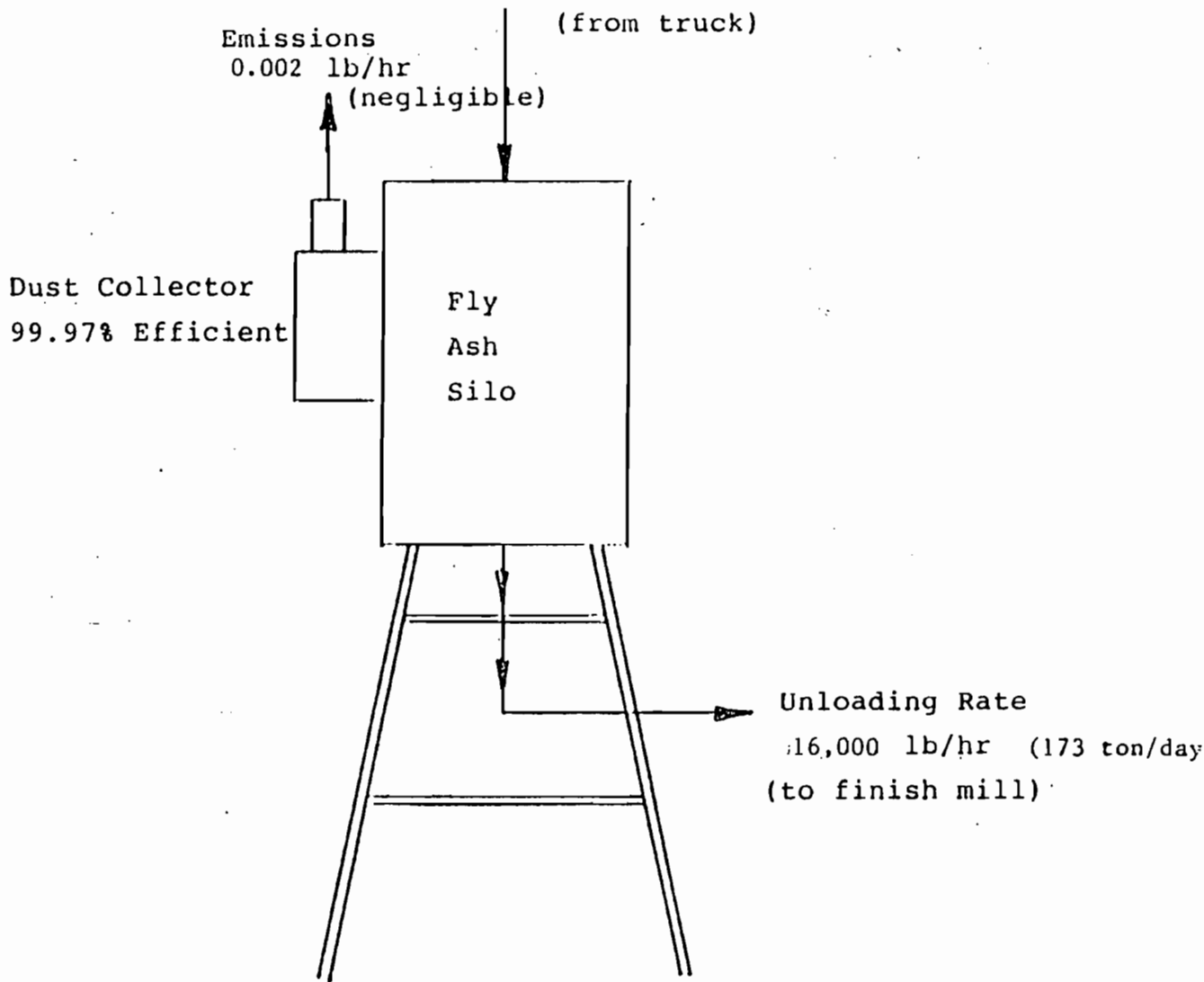
SO 13330

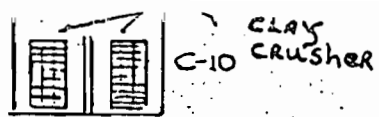
DRAWN BY DRD 6-28-77	CHECKED BY RAM 7-1-77	DWG NO. CCT 28546
APPROVED BY JCS 7-1-77	CERTIFIED BY PAK 10 2 50	

SECTION V

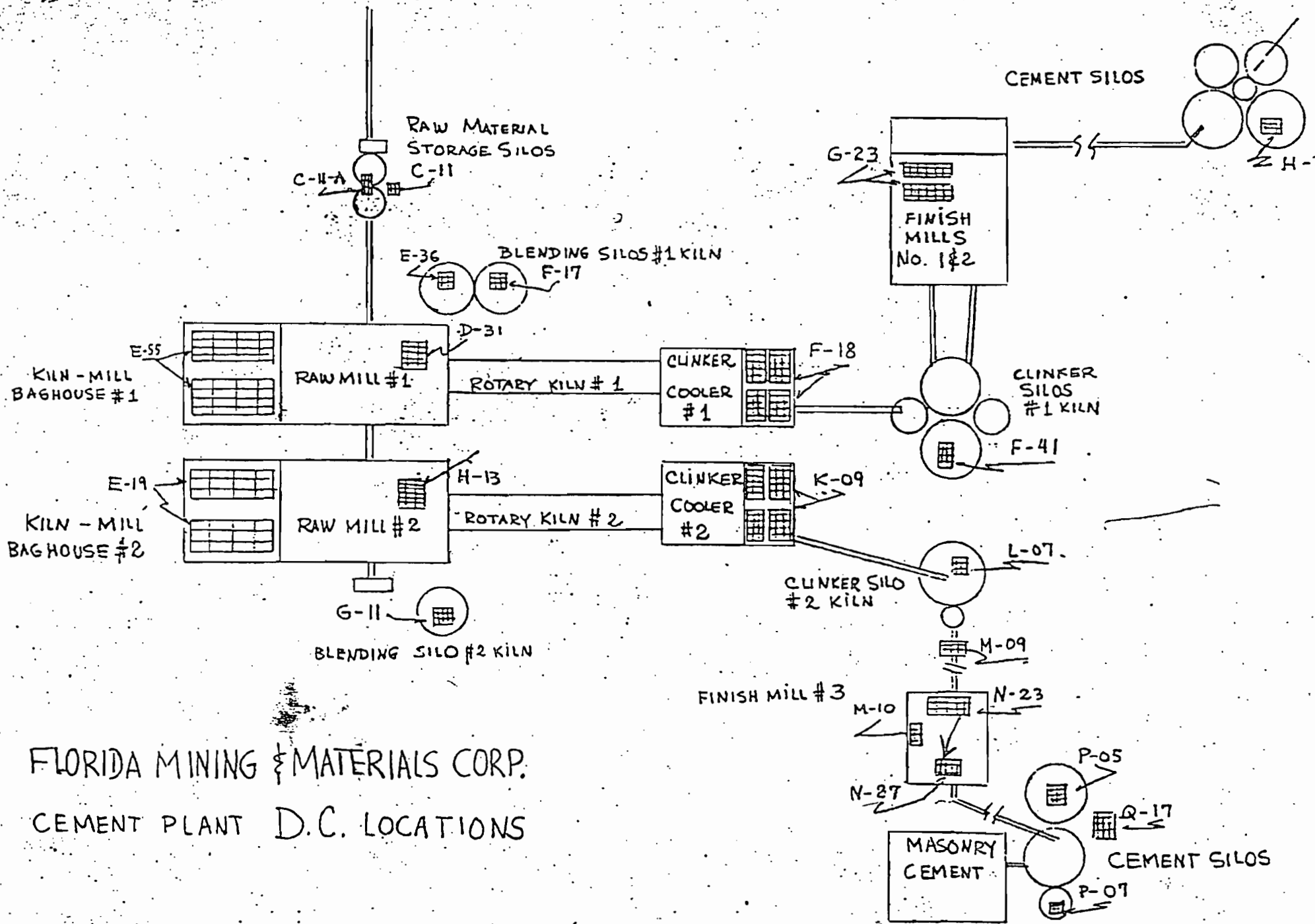
ITEM 6

Loading Rate
60,000 lb/hr (180 ton/day)





BEST AVAILABLE COPY



FLORIDA MINING & MATERIALS CORP.
CEMENT PLANT D.C. LOCATIONS

DEPARTMENT OF ENVIRONMENTAL REGULATION

D.E.R.



APR 26 1989

SOUTHWEST DISTRICT TAMPA

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Cement Manufacturing [] New¹ [x] Existing¹

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

COMPANY NAME: 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) Source M-3514 Baghouse

SOURCE LOCATION: Street U. S. Highway 98 North City Brooksville

UTM: East 17-356.00E North 3169.89N

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

APPLICANT NAME AND TITLE: Henry E. Andre, Vice President

APPLICANT ADDRESS: P.O. Box 6, Brooksville, Florida 33512

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

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

I certify that the statements made in this application for a modification of existing 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 permit establishment.

*Attach letter of authorization

Signed: H. E. Andre

Henry E. Andre, Vice President Name and Title (Please Type)

Date: 4-18-89 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)

MOORE
McCORMACK RESOURCES

Moore McCormack Resources, Inc.
P.O. Box 23965
Tampa, FL 33630
813 933 6711

September 20, 1988

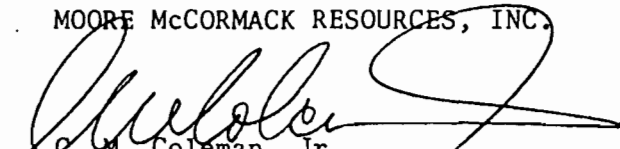
TO WHOM IT MAY CONCERN:

This letter authorizes Henry E. Andre, Vice President, Operations Moore McCormack Resources, Inc. d/b/a/ Florida Mining & Materials, Post Office Box 6, Brooksville, Florida 34605, to apply for any and all permits required for the following operating Divisions of the Company:

- Brooksville Cement
- Jacksonville Cement Terminal
- Brooksville Rock
- Babcock Aggregates
- DeVane Silica Mining
- Van Fleet Sand

Sincerely,

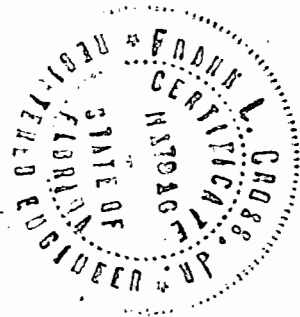
MOORE McCORMACK RESOURCES, INC.



C. M. Coleman, Jr.
Vice President/General Manager

CMC:pn

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 *Frank L. Cross, Jr.*
 Frank L. Cross, Jr., P.E., President
 Name (Please Type)

Cross/Tessitore & Associates
 Company Name (Please Type)
 4763 South Conway Road, Suite F
 Orlando, Florida 32812
 Mailing Address (Please Type)

Florida Registration No. 7916 Date: 4-24-89 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.

This project involves the loading of cement into bags. A ventilation system carries and controls emissions via an American Air Filter Fabri-Pulse 12-96 dust collector. This collector provides an efficiency of 99.97% and results in full compliance with FDER regulations. (Cont) See Section II, Attachment A

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

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)
American Air Filter Fabric-Pulse 12-96 Dust Collector - \$11,799.50

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.
Permit No. A027-139895 Issued: 12-22-87
Expires: 12-18-92

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 47 ;
if power plant, hrs/yr _____ ; if seasonal, describe: This operation operates at the above
rates for a total of 8736 hr/yr. This plant is down for approximately 12 hrs a week for
maintenance time. This puts the total to 8112 hr/yr.

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? N/A

b. If yes, has "Lowest Achievable Emission Rate" been applied? N/A

c. If yes, list non-attainment pollutants. _____ N/A

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? NO

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? _____ N/A

b. If yes, in addition to the information required in this form,
any information requested in Rule 17-2.650 must be submitted.

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Limestone				
Sand and Fly ash Mixture	Particulate	.1	94,000	Section V, Item 6

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

1. Total Process Input Rate (lbs/hr): 94,000

2. Product Weight (lbs/hr): 94,000

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 ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Particulate	4.2x10 ⁻⁴	1.7x10 ⁻³	17-2.610(2)	32.1	1.4	5.5	

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable standard.

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
AAF Fabri-Pulse				
12-96 Dust Collector	Particulate	99.97%	1 Micron	Manufacturer's Data

E. Fuels N/A

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:

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 N/A Maximum N/A

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

 N/A

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

Stack Height: 83'6" ft. Stack Diameter: square 21 1/2" x 16 1/16" ft.
 Gas Flow Rate: 10,000 ACFM 10,000 DSCFM Gas Exit Temperature: 70 °F.
 Water Vapor Content: Negligible % Velocity: 57.5 FPS

See Attachment Section III H

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

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

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

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume (ft) ³	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

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

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

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

Type of pollution control device: Cyclone Wet Scrubber Afterburner

Other (specify) _____

Brief description of operating characteristics of control devices: Limestone, sand and fly ash are loaded into a storage bin. Air is displaced in the silo and escapes through a stack (via a dust collector). Particulates in the displaced air are captured in an AAF dust collector.

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

All dust collected is returned to the silo.

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

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 roadway (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

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

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

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

Yes No

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

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

Yes No

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

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

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

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

1. Control Device/System:

2. Operating Principles:

3. Efficiency:*

4. Capital Costs:

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Costs:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height:

ft.

b. Diameter:

ft.

c. Flow Rate:

ACFM

d. Temperature:

°F.

e. Velocity:

FPS

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

1.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

2.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

¹Explain method of determining efficiency.

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

j. Applicability to manufacturing processes:

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

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:¹

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:²

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

¹Explain method of determining efficiency.

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

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

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

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A

A. Company Monitored Data

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

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

FLORIDA MINING & MATERIALS

SECTION II, ATTACHMENT A

This source was previously permitted to operate 2080 hrs/yr. The purpose of this modification to the existing permit is to increase the operational time to 8112 hrs/yr. The particulate emissions from this process are addressed in this application.

The total particulate emissions from the cement bag loadout operation are negligible resulting in:

0.00042 lb/hr uncontrolled particulate
0.0017 ton/yr uncontrolled particulate

FLORIDA MINING & MATERIALS

SECTION III ATTACHMENT

ITEM H Emission Stack Geometry And Flow Characteristics

Assumptions

Stack area = 26 1/2" x 16 1/16"

Gas flow rate = 10,000 CFM

$$26 \frac{1}{2}'' = 26 \frac{8}{16}'' \times 16 \frac{1}{16}'' / 144'' = 2.9 \text{ ft}^2 \text{ (A)}$$

$$V = \frac{\text{ft}^3 / \text{min}}{A(\text{ft}^2)} = \frac{\text{ft}/\text{min}}{60 \text{ sec}} = \text{ft}/\text{sec}$$

$$V = \frac{10,000 \text{ ft}^3/\text{min}}{2.9 \text{ ft}^2} = \frac{3448.3 \text{ ft}/\text{min}}{60 \text{ sec}} = 57.5 \text{ ft}/\text{sec}$$

TABLE 8.10-1. UNCONTROLLED PARTICULATE EMISSION FACTORS FOR CONCRETE BATCHING

Source	kg/Mg of material	lb/ton of material	lb/yd ³ of concrete ^a	Emission Factor Rating
Sand and aggregate transfer to elevated bin ^b	0.014	0.029	0.05	E
Cement unloading to elevated storage silo				
Pneumatic ^c	0.13	0.27	0.07	D
Bucket elevator ^d	0.12	0.24	0.06	E
Weigh hopper loading ^e	0.01	0.02	0.04	E
Truck loading (truck mix) ^e	0.01	0.02	0.04	E
Mixer loading (central mix) ^e	0.02	0.04	0.07	E
Vehicle traffic (unpaved road) ^f	4.5 kg/VKT	16 lb/VMT	0.28	C
Wind erosion from sand and aggregate storage piles ^h	3.9 kg/hectare/day	3.5 lb/acre/day	0.1 ⁱ	D
Total process emissions (truck mix) ^j	0.05	0.10	0.20	E

^aBased on a typical yd³ weighing 1,818 kg (4,000 lb) and containing 227 kg (500 lb) cement, 564 kg (1,240 lb) sand, 864 kg (1,900 lb) coarse aggregate and 164 kg (360 lb) water.

^bReference 6.

^cFor uncontrolled emissions measured before filter. Based on two tests on pneumatic conveying controlled by a fabric filter.

^dReference 7. From test of mechanical unloading to hopper and subsequent transport of cement by enclosed bucket elevator to elevated bins with fabric socks over bin vent.

^eReference 5. Engineering judgement, based on observations and emission tests of similar controlled sources.

^fFrom Section 11.2.1, with $k = 0.8$, $s = 12$, $S = 20$, $W = 20$, $w = 14$, and $p = 100$. VKT = vehicle kilometers traveled. VMT = vehicle miles traveled.

^gBased on facility producing 23,100 m³/yr (30,000 yd³/yr), with average truck load of 6.2m³ (8 yd³) and plant road length of 161 meters (1/10 mile).

^hFrom Section 8.19.1, for emissions <30 um for inactive storage piles.

ⁱAssumes 1,011 m² (1/4 acre) of sand and aggregate storage at plant with production of 23,100 m³/yr (30,000 yd³/yr).

^jBased on pneumatic conveying of cement at a truck mix facility. Does not include vehicle traffic or wind erosion from storage piles.

**FLORIDA MINING & MATERIALS
SUPPLEMENTAL REQUIREMENTS
SECTION V**

ITEM 1 Process Input Rate

Assumptions

Operating hours = 8112 hr/yr
Process input rate = 94,000 lb/hr (47 ton/hr)
1000 bag/hr produced = 94 lb/bag
47 ton/hr x 8112 hr/yr = 381,264 ton/yr

ITEMS 2 & 3 Uncontrolled Particulate Emissions Calculations

Assumption

Process input rate = 47 ton/hr
Operating hours = 8112 hr/yr
Emissions factor = 0.029 lb/ton of material (As per Table 8.10-1, AP-42)
Efficiency of baghouse = 99.97%

Potential Emissions

47 ton/hr x 0.0029 lb = 1.4 lb/hr x 8112 hr/yr / 2000 lb/ton = 5.5 ton/yr.

Actual Emissions

1.4 lb/hr (1 - .9997) = 4.2×10^{-4} lb/hr x 8112 hr/yr / 2000 lb/ton = 1.7×10^{-3} ton/yr particulate

Allowable Emissions

P = 47 ton/hr

E = 17.31 (P)^{0.16} where P is greater than 30 TPH

E = 17.31 (47)^{0.16}

E = 32.1 lb/hr

ITEM 4 Air Pollution Control

Assumptions

Air flow rate = 10,000 ACFM

Cloth Area = 1,536

$$\frac{10,000 \text{ ft}^3/\text{min}}{1,536 \text{ ft}^2} = 6.5$$

Air to cloth ratio = 6.5 to 1

ITEM 5 Control Device Efficiency

Assumptions

Baghouse efficiency = 99.97%

Actual emissions = 4.2×10^{-4} lb/hr

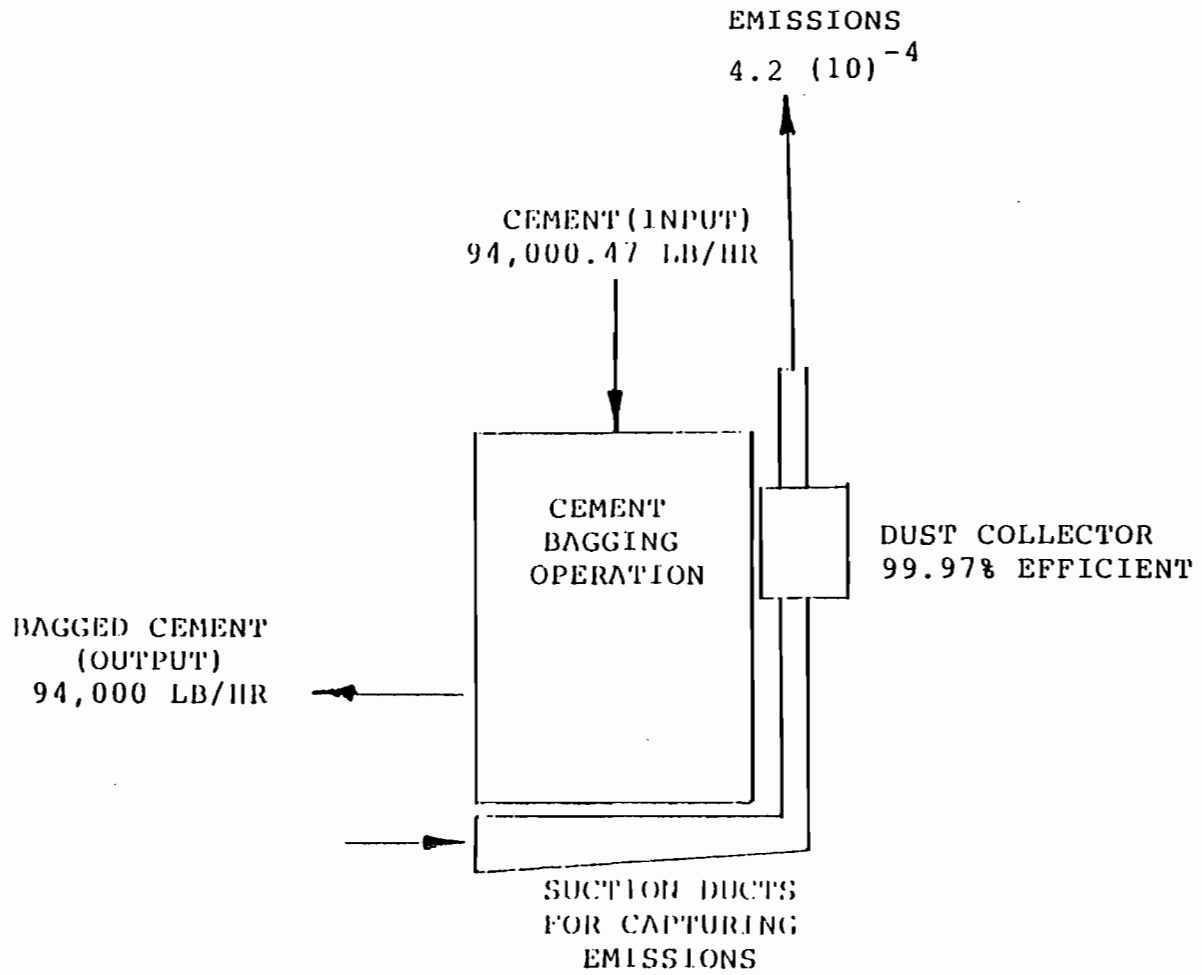
Potential emissions = 1.4 lb/hr

Actual emissions = potential (1 - efficiency)

$$\text{Efficiency} = \frac{\text{potential} - \text{actual emissions}}{\text{potential}} \times 100$$

$$\frac{1.4 \text{ lb/hr} - 3 \times 10^{-4} \text{ lb/hr}}{1.4 \text{ lb/hr}} \times 100 = 99.97\%$$

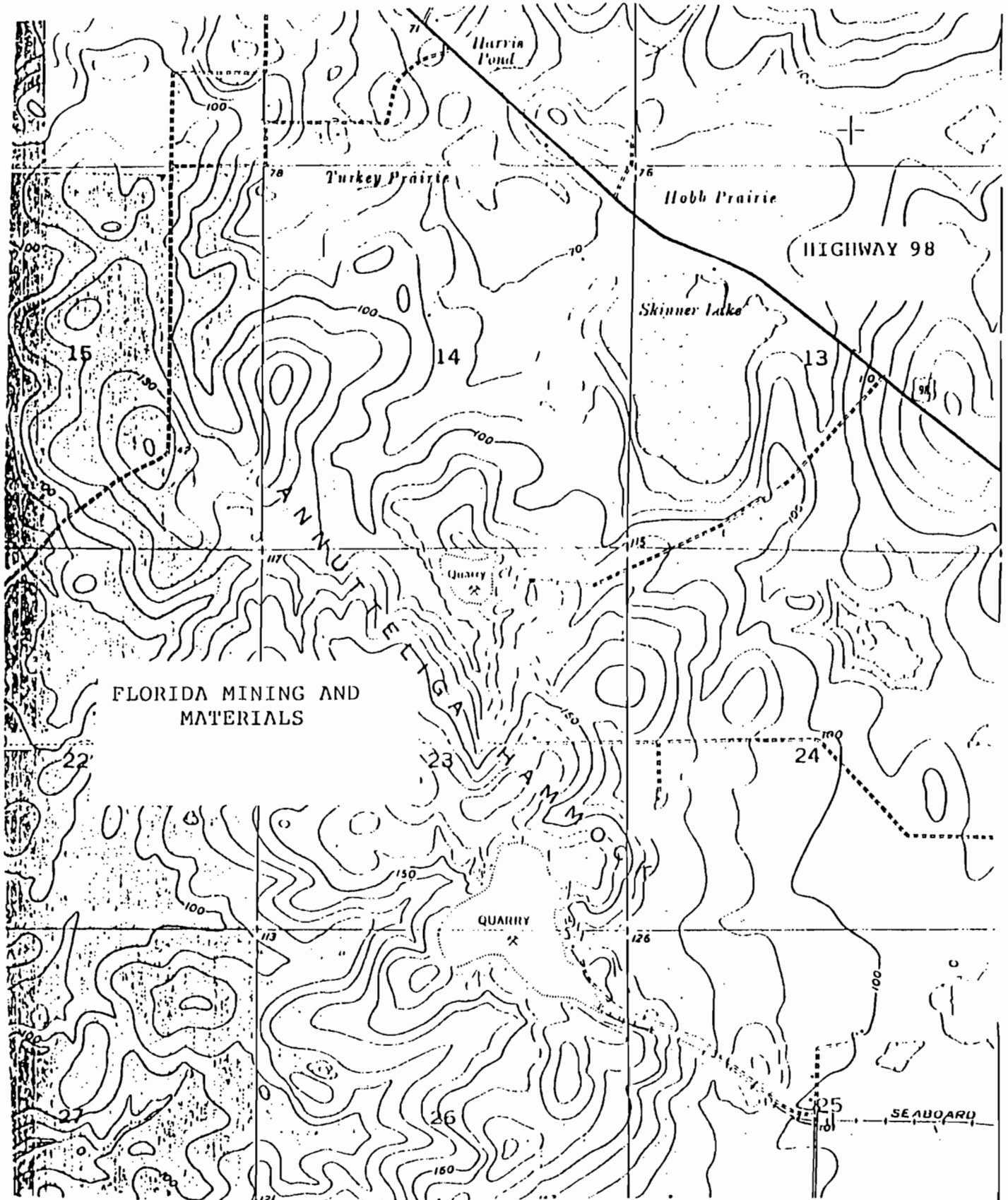
SECTION V
ITEM 6



SECTION V

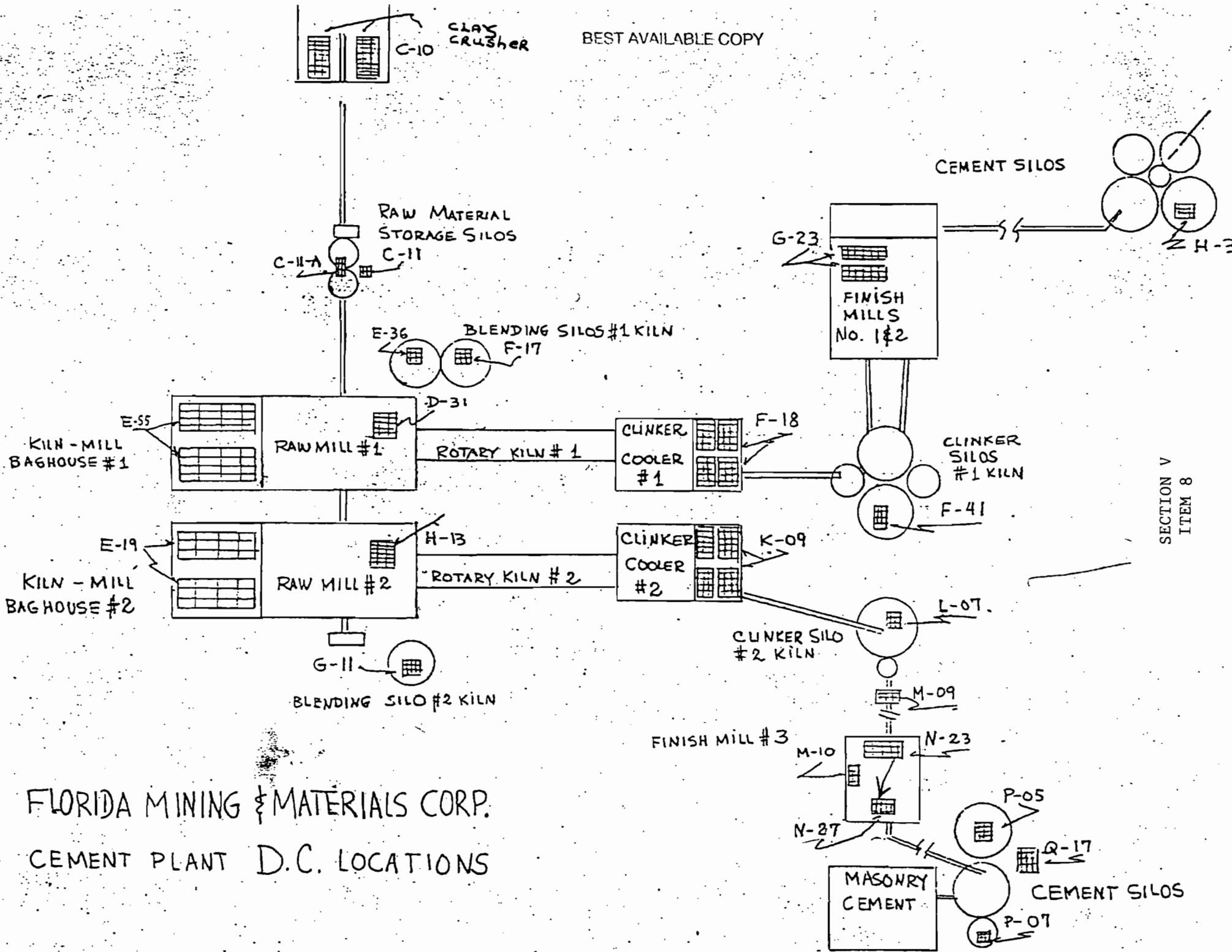
BEST AVAILABLE COPY

ITEM 7



SCALE 1:24000

CROSS/TESSITORE & ASSOC., P.A.
ENVIRONMENTAL ENGINEERS OILLANDO, FLORIDA



FLORIDA MINING & MATERIALS CORP.
CEMENT PLANT D.C. LOCATIONS

SECTION V
ITEM 8