

No. 0158674
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO Mr. Browne Gregg			
STREET AND NO.			
P.O., STATE AND ZIP CODE			
POSTAGE	\$		
CONSULT POSTMASTER FOR FEES	<input checked="" type="checkbox"/> CERTIFIED FEE	¢	
	SPECIAL DELIVERY	¢	
	RESTRICTED DELIVERY	¢	
	OPTIONAL SERVICES	SHOW TO WHOM AND DATE DELIVERED	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢	
TOTAL POSTAGE AND FEES	\$		
POSTMARK OR DATE 3/11/85			

PS Form 3800, Apr. 1976

PS Form 3811, July 1983

● **SENDER: Complete items 1, 2, 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 service(s) requested.

1. Show to whom, date and address of delivery.
 2. Restricted Delivery.

3. Article Addressed to:
 Mr. Browne Gregg
 Florida Crushed Stone Co.
 P. O. Box 317
 Leesburg, Florida 32748

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	0158674

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

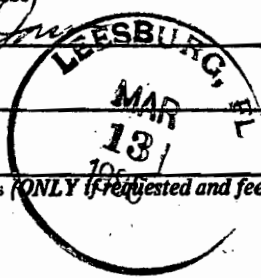
5. Signature - Addressee
 X *J. R. [Signature]*

6. Signature - Agent
 X

7. Date of Delivery
 MAR 13 1985

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

DOMESTIC RETURN RECEIPT



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

March 7, 1985

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Browne Gregg
Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32748

Dear Mr. Gregg:

Enclosed are Permit Numbers AC 27-091426, AC 27-091427, AC 27-091429, AC 27-091430, AC 27-091432, and AC 27-091433 dated March 5, 1985, to Florida Crushed Stone Company issued pursuant to Section 403, Florida Statutes.

Acceptance of these permits constitutes notice and agreement that the department will periodically review these permits for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

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

CHF/pa

Enclosure

cc: John Koogler, P.E.
Bill Thomas
Joe McGlothlin

Final Determination

Florida Crushed Stone Company
Hernando County
Brooksville, Florida

Limestone Handling and Storage System

Permit Numbers:

AC27-091426
AC27-091427
AC27-091429
AC27-091430
AC27-091432
AC27-091433

Florida Department of Environmental Regulation

Bureau of Air Quality Management

Central Air Permitting

March 4, 1985

Final Determination

The applications for permits from Florida Crushed Stone Company to construct a limestone handling and storage system at their existing facility in Hernando County, Florida, have been reviewed by the Bureau of Air Quality Management. Public Notice of the department's intent to issue the construction permits was published in the Sun-Journal on January 22, 1985.

Copies of the preliminary determination have been available for public inspection at the department's Southwest District office in Tampa and the Bureau of Air Quality Management office in Tallahassee.

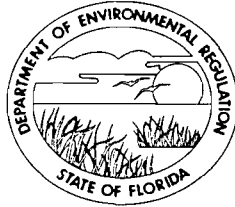
There were no letters of response as a result of the public notice period.

The final action of the department will be to issue the permits as noticed during the public notice period.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091426
Expiration Date: March 31, 1987
County: Hernando
Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W
Project: Limestone Screening baghouse

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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a limestone screening baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091426
Expiration Date: March 31, 1987

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 Crushed Stone Company

Permit Number: AC27-091426

Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091426
Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091426
Expiration Date: March 31, 1987

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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 0.77 pounds per hour or 3.04 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company

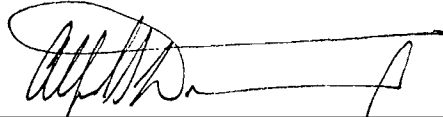
Permit Number: AC27-091426
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)(d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this 5th day of March,
19 85.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091427
Expiration Date: March 31, 1987
County: Hernando
Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W
Project: Limestone 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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a limestone storage bin and baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091427
Expiration Date: March 31, 1987

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 Crushed Stone Company

Permit Number: AC27-091427

Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091427
Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091427
Expiration Date: March 31, 1987

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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 0.77 pounds per hour or 3.04 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company

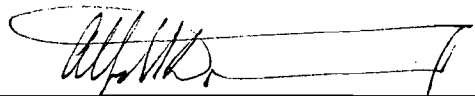
Permit Number: AC27-091427
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)9d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this 5th day of March,
1985.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

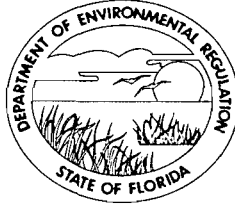

for VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091429
Expiration Date: March 31, 1987
County: Hernando
Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W
Project: Limestone 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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a limestone storage bin and baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091429
Expiration Date: March 31, 1987

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 Crushed Stone Company

Permit Number: AC27-091429

Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091429
Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091429
Expiration Date: March 31, 1987

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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 1.16 pounds per hour or 4.56 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company

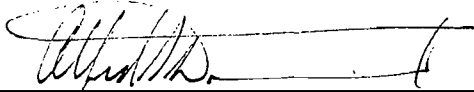
Permit Number: AC27-091429
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)(d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this 5th day of March,
1985.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

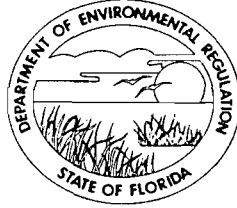

for VICTORIA J. TSCHINKEL, Secretary

 pages attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091430
Expiration Date: March 31, 1987
County: Hernando
Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W
Project: Limestone Storage Silo B

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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a lime storage silo and baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091430
Expiration Date: March 31, 1987

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 Crushed Stone Company

Permit Number: AC27-091430

Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091430
Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091430
Expiration Date: March 31, 1987

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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 0.64 pounds per hour or 2.53 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company

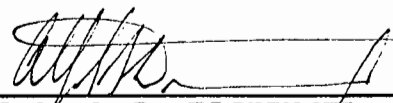
Permit Number: AC27-091430
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)(d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this 5th day of March,
19 85.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



VICTORIA J. TSCHINKEL, Secretary

_____ pages attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091432
Expiration Date: March 31, 1987
County: Hernando
Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W
Project: Lime silo discharge and
baghouse

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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a lime silo discharge and baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091432
Expiration Date: March 31, 1987

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 Crushed Stone Company

Permit Number: AC27-091432

Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091432
Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091432
Expiration Date: March 31, 1987

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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 0.64 pounds per hour or 2.53 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company

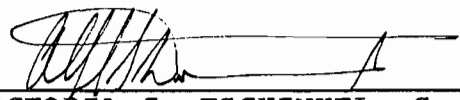
Permit Number: AC27-091432
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)(d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this 5th day of March,
1985.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091433
Expiration Date: March 31, 1987
County: Hernando
Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W
Project: Lime storage silo A

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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a lime storage silo and baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091433
Expiration Date: March 31, 1987

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 Crushed Stone Company

Permit Number: AC27-091433

Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091433
Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091433
Expiration Date: March 31, 1987

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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 0.64 pounds per hour or 2.53 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company


Permit Number: AC27-091433
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)(d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this 5th day of March,
1985.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



for VICTORIA J. TSCHINKEL, Secretary

____ pages attached.

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional []	Reply Required []	Info. Only []
Date Due: _____	Date Due: _____	

TO: Victoria J. Tschinkel
FROM: Clair Fancy *Clair Fancy*
DATE: March 4, 1985
SUBJ: Approval of Attached Air Construction Permits

RECEIVED

MAR 4 1985

Office of the Secretary

Attached for your approval and signature are six Air Construction Permit for Florida Crushed Stone Company. These are permits to construct a limestone handling and storage system at the applicant's existing facility in Brooksville, Hernando County, Florida.

Day 90, after which the permits would be issued by default, is March 10, 1985.

The Bureau recommends your approval and signature.

CF/pa

Attachments

DER

MAR 5 1985

BAQM

Check Sheet

Company Name: Florida Crushed Stone
 Permit Number: AC 27-0914 26^{se} through 09N27, -29, -30, -33, -33
 PSD Number:
 County:
 Permit Engineer: Bruce
 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

P 408 532 071

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	
Mr. Richard C. Entorf	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$

Postmark or Date

10/17/86

PS Form 3800, Feb. 1982

PS Form 3811, July 1983 447,845

SENDER: Complete items 1, 2, 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 service(s) requested.

- Show to whom, date and address of delivery.
- Restricted Delivery.

3. Article Addressed to:
Mr. Richard C. Entorf
Florida Crushed Stone Company
P. O. Box 300
Leesburg, FL 32749

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P 408 532 071

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

5. Signature — Addressee
X

6. Signature — Agent
X *[Signature]*

7. Date of Delivery
10-20-86

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

DOMESTIC RETURN RECEIPT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

April 6, 1987

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Fred Crabill
Environmental Manager
Florida Crushed Stone Company
Post Office Box 300
Leesburg, Florida 32749

Dear Mr. Crabill:

Re: Application for Construction Permits

The department has received your request for change of expiration date. The request has been granted and the following shall be added or changed.

Project: AC 27-091426, -091427, -091429, -091430, -091432,
-091433, -091450, -117650, -118672, -118673, -118674, -118675,
-118676, -118677, -118678, -118680, -118681, -118683, -118684,
-118685, -118686, -118687, -118688, -118689, -118690

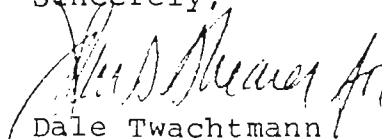
From: June 30, 1987, Expiration Date
To: December 31, 1987, Expiration Date

Attachment to be Incorporated:

10. Letter of John B. Koogler, March 27, 1987.

This letter must be attached to your construction permits and shall become part of those permits.

Sincerely,


Dale Twachtmann
Secretary

DT/ks

cc: John B. Koogler, P.E.
William C. Thomas

3-26-87
3:26 PM



KOOGLER & ASSOCIATES, *Environmental Services*

1213 NW 6th Street • Gainesville, Florida 32601 • 904/377-5822

KA 307-86-04

March 26, 1987

DER
MAR 27 1987
BAQM

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. C. H. Fancy
Florida Department of
Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32301

Subject: Florida Crushed Stone Company
Brooksville, Florida CPL Plant
Air Construction Permits

Dear Mr. Fancy:

The Florida Crushed Stone Company (FCS) has been issued 24 air construction permits for a cement/power/lime (CPL) plant being constructed northwest of Brooksville, Florida. The expiration date on seven of these permits is March 30, 1987 and the expiration date on the remaining 17 is June 30, 1986. Part of the plant is completed and production performance tests are underway. The remaining part of the plant is due for completion within the next month. By this letter, we are requesting that the expiration date on all of the air construction permits be extended to September 30, 1987. This will give FCS adequate time to conduct all necessary compliance testing and to submit applications for air operating permits to the Department.

The permits for which we are requesting an expiration date extension are:

- AC27-091426 - Limestone screening
- AC27-091427 - Limestone fines storage bin
- AC27-091429 - Lime dust storage bin
- AC27-091430 - Limestone storage silo B
- AC27-091432 - Lime shipping baghouse
- AC27-091433 - Lime storage silo A
- AC27-117650 - Coal handling
- AC27-118672 - Filter dust bins

Mr. C. H. Fancy
Florida Department of
Environmental Regulation

March 26, 1987

Page 2

AC27-118673 - Fly ash bins
AC27-118674 - Cement kiln, clinker cooler, dryer and raw mill
AC27-118675 - Raw meal transfer
AC27-118676 - Limerock bin
AC27-118677 - Blending silo
AC27-118678 - Kiln feed surge bin
AC27-118680 - Clinker handling
AC27-118681 - Contaminated fly ash and filter dust bin
AC27-118683 - Iron ore bin
AC27-118684 - Cooler discharge
AC27-118685 - Clinker silo
AC27-118686 - Gypsum and limestone bins
AC27-118687 - Silo discharge
AC27-118688 - Finish mill
AC27-118689 - Cement silo discharge
AC27-118690 - Cement silo

If there are any questions regarding this request, please do not hesitate to contact me.

Very truly yours,

KOOGLER & ASSOCIATES



John B. Koogler, Ph.D., P.E.

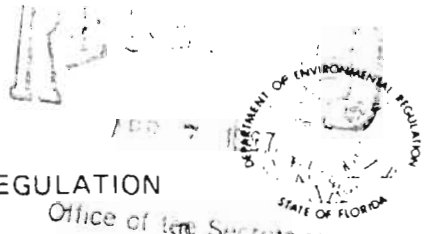
JBK:app

cc: Mr. Dick Entorf
Mr. Fred Crabill

B. THOMAS

M. Tom Doug

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

TO: Dale Twachtmann

THRU: Howard L. Rhodes

FROM: Clair Fancy *att* → 8-1344 when signed

DATE: April 6, 1987

SUBJ: Approval and Signature of an Amendment to Construction Permits AC 27-091426, -091427, -091429, -091430, -091432, -091433, -091450, -117650, -118672, -118673, -118674, -118675, -118676, -118677, -118678, -118680, -118681, -118683, -118684, -118685, -118686, -118687, -118688, -118689, and -118690, for Florida Crushed Stone Company, issued March 5, 1985.

Enclosed is an amendment to the referenced construction permits and the bureau recommends approval.

CHF/MH/s

FOR ROUTING TO OTHER THAN THE ADDRESSEE	
To: _____	Loctn: _____
To: _____	Loctn: _____
To: _____	Loctn: _____
From: _____	Date: _____

P 407 853 143

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

*U.S.G.P.O. 1989-234-555

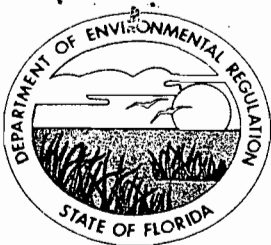
PS Form 3800, June 1985

Sent to	Tom Mountain	
Street and no.	Central Power & Line	
P.O., State and ZIP Code	Brooksville, FL	
Postage	\$	
Certified Fee		
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt showing to whom and Date Delivered		
Return Receipt showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees	\$	
Postmark or Date	1-25-91 AC 27-091426	

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)

3. Article Addressed to: Mr. Tom Mountain Central Power & Line, Inc. P.O. Box 1508 Brooksville, FL 34605-1508	4. Article Number P407 853 143
5. Signature - Addressee X	Type of Service: <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
6. Signature - Agent X <i>[Signature]</i>	Always obtain signature of addressee or agent and DATE DELIVERED.
7. Date of Delivery 1-29-91	8. Addressee's Address (ONLY if requested and fee paid)



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

January 22, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Tom Mountain, Environmental Manager
Central Power & Lime, Inc.
Post Office Box 1508
Brooksville, Florida 34605-1508

Dear Mr. Mountain:

Re: Request for Alternate Procedures and Requirements
Florida Crushed Stone Company
AC 27-091426, 27, 29, 30, 32 & 33

The Department has reviewed Dr. John Koogler's letter with enclosures received December 24, 1990, which requested that the above referenced sources be allowed to demonstrate compliance using a visible emission standard (not greater than 5% opacity) in lieu of conducting a mass emissions test for particulate matter. Since all of the sources are minor and are each equipped with a baghouse control system, the Department is in agreement with the request pursuant to F.A.C. Rule 17-2.700(3)(d). Therefore, and based on a phone conversation with Dr. Koogler on January 15, 1991, the following will be changed and added:

AC 27-091426 and 27 - Specific Condition No. 2:

FROM: Particulate matter emissions shall not exceed 0.77 pounds per hour or 3.04 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.

TO: Particulate matter emissions shall not exceed 0.77 pounds per hour or 3.04 tons per year (0.015 grains per actual cubic foot). Compliance tests using EPA Method 5 shall be submitted to the DER's Southwest District office within 45 days after completion of the tests. In lieu of conducting compliance tests for particulate matter, the source is subject to the standards of F.A.C. Rule 17-2.700(3)(d), Exception and Approval of Alternate Procedures and Requirements.

Mr. Tom Mountain
January 22, 1991
Page 2

AC 27-091429 - Specific Condition No. 2:

FROM: Particulate matter emissions shall not exceed 1.16 pounds per hour or 4.56 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.

TO: Particulate matter emissions shall not exceed 1.16 pounds per hour or 4.56 tons per year (0.015 grains per actual cubic foot). Compliance tests using EPA Method 5 shall be submitted to the DER's Southwest District office within 45 days after completion of the tests. In lieu of conducting compliance tests for particulate matter, the source is subject to the standards of F.A.C. Rule 17-2.700(3)(d), Exception and Approval of Alternate Procedures and Requirements.

AC 27-091430, 32 and 33 - Specific Condition No. 2:

FROM: Particulate matter emissions shall not exceed 0.64 pounds per hour or 2.53 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.

TO: Particulate matter emissions shall not exceed 0.64 pounds per hour or 2.53 tons per year (0.015 grains per actual cubic foot). Compliance tests using EPA Method 5 shall be submitted to the DER's Southwest District office within 45 days after completion of the tests. In lieu of conducting compliance tests for particulate matter, the source is subject to the standards of F.A.C. Rule 17-2.700(3)(d), Exception and Approval of Alternate Procedures and Requirements.

AC 27-091426, 27, 29, 30, 32 and 33:

Specific Condition No. 3:

FROM: There shall be no visible emissions (five percent opacity).

TO: Visible emissions shall not exceed 5% opacity pursuant to F.A.C. Rule 17-2.700(3)(d).

Mr. Tom Mountain
January 22, 1991
Page 3

Specific Condition No. 4:

FROM: Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

TO: Compliance with the visible emission standards shall be demonstrated using EPA Method 9, in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A.

Specific Condition No. 7:

FROM: If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)(d)6, FAC.

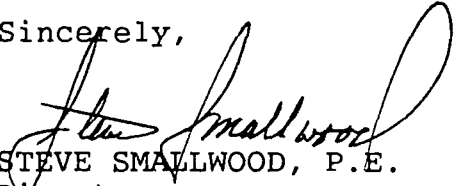
TO: The source is subject to all applicable standards of F.A.C. Chapters 17-2 and 17-4 and 40 CFR 60 (July, 1989 version).

Attachment to be Incorporated:

- o Dr. John B. Koogler's letter with enclosures received December 24, 1990.

This letter shall be attached to the above referenced construction permits and shall become a part of the permits.

Sincerely,


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

SS/BM/plm

Attachment

c: B. Thomas, SW Dist.
J. Koogler, P.E., K&A



KOGLER & ASSOCIATES

ENVIRONMENTAL SERVICES

4014 NW THIRTEENTH STREET

GAINESVILLE, FLORIDA 32609

904/377-5822 • FAX 377-7158

KA 307-86-04

December 21, 1990

Mr. Clair Fancy
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Fancy:

Central Power & Lime, Inc. requests that the six construction permits (AC27-091426, AC27-091427, AC27-091429, AC27-091430, AC27-091432, and AC27-091433) for the CPL Lime Plant in Brooksville, Florida, be modified to reflect the following amendments:

Specific Condition No. 2

FROM: Particulate matter emissions An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the test.

TO: Particulate matter emissions An initial compliance test using EPA Method 9 shall be submitted to DER's Southwest District office within 45 days after completion of the test.

Specific Condition No. 7

FROM: If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)9(d)6, FAC.

TO: Visible emissions shall not be greater than 5 percent opacity as demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC.

The reasons for these modifications are best explained in my letter of October 22, 1990, to David Zell of your Southwest District Office. Please refer to the attached copy of this letter. Also included in this package is a copy of all the correspondence from the Southwest District Office pertaining to this matter.

Mr. Clair Fancy
Florida Department
of Environmental Regulation

December 21, 1990
Page 2

As usual, If you have any questions, please feel free to contact me.

Very truly yours,

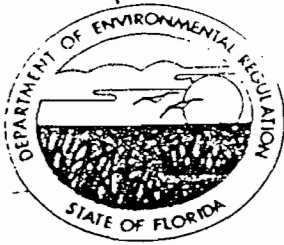
KOGLER & ASSOCIATES


John B. Koogler, Ph.D., P.E.

JBK:wa
Enc.

cc: Mr. J. Pennington, FDER-Tallahassee
Mr. David Zell, FDER-Tampa
Mr. Tom Mountain, FCS CPL
B. Mitchell
B. Thomas, SW Dist





Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5500

Bob Martinez, Governor

Dale Twachtmann, Secretary

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

RECEIVED
October 29, 1990

DEC 24 1990

DER-BAQM

Mr. Tom Mountain
Environmental Manager
Central Power & Lime, Inc.
P.O. Box 1508
Brooksville, FL 34605-1508

Dear Mr. Mountain:

Re: Hernando County - AP
A027-186140 to 141 and 186143 thru 146
Lime Plant Operation Permits

Based on questions raised in our letter of October 3, 1990 and the response letter of October 22, 1990 from your consultant, Koogler & Associates, the Southwest District Office has made the following determinations:

1. Construction permit No. AC27-091430 for Lime Storage Silo B should be voided as this source has not been, nor will it be, constructed. This action must be done by the DER - Tallahassee, Central Air Permitting Section because they issued the original construction permit.
2. Indications are that the limestone dryer discharge transfer point, with particulate emissions controlled by the baghouse originally intended for Limestone Storage Silo B, is operating without a permit. An application for this source must be submitted to DER-Tallahassee and an after-the-fact construction permit obtained.
3. Any waiver of particulate compliance testing requirements pursuant to Rule 17-2.700(3)(d) must be approved by, and obtained from, DER-Tallahassee where the original permits were issued. While the above rule does allow the District Manager to waive the particulate test requirement, the Rule states that waiver shall be specified in the permit issued to the source. The construction permits for the lime plant sources specifically call for an initial EPA Method 5 compliance test (Specific Condition No. 2) and go on to say that subsequent compliance tests may be done by Method 9 VE tests (Specific Condition No. 7). In order to change this requirement and allow the waiver, the original construction permits must be amended.

Central Power & Lime
Brooksville, FL

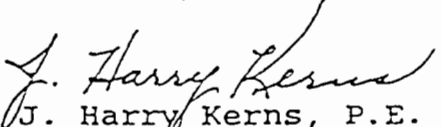
Page 2

In order for the Southwest District Office to continue processing the operation permit applications, the above issues must be resolved and finalized. Therefore, Central Power & Lime shall submit a request for the desired changes along with the appropriate application information, to the Central Air Permitting Section at the DER-Tallahassee office. Copies of all correspondence and applications should also be sent to the Air Section of the Southwest District Office of the Department. The applicant shall notify the Air Section of the Southwest District Office when resolution is complete in order to trigger the resumption of processing of the operation permit applications.

"Notice: Pursuant to the provisions of Section 120.600, F.S. and Subsection 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department will issue a final order denying your application. You need to respond within 30 days after you receive this letter, responding to as many of the information requests as possible and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 90 days to develop, an application for new construction should be withdrawn and resubmitted when completed information is available. Or for operating permits, you should develop a specific time table for the submission of the requested information for Department review and consideration. Failure to comply with a time table accepted by the Department will be grounds for the Department to issue a Final Order for Denial for lack of timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can reapply as soon as the requested information is available."

If you have any questions, please call David Zell of my staff at (813) 623-5561 extension 416.

Sincerely,


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

DRZ/

cc: ✓ John B. Koogler, P.E., Koogler & Assoc.
Barry Andrews - CAPS, DER-Tallahassee w/copies of
applications and correspondence



KOUGLER & ASSOCIATES

ENVIRONMENTAL SERVICES

4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
904/377-5822 • FAX 377-7158

KA 307-86-04

October 22, 1990

Mr. David Zell
Florida Department of
Environmental Regulation
Southwest District Office
4520 Oak Fair Blvd.
Tampa, FL 33610-7347

Subject: Hernando County AP
Central Power & Lime, Inc.
Response to Department's Letter of
October 3, 1990

Dear Mr. Zell:

This letter is in reference to questions raised during our telephone conversation of September 26, 1990, and the subsequent letter of October 3, 1990, from Harry Kerns to Mr. Tom Mountain of Central Power & Lime, Inc. of Brooksville, Florida. Please refer to the attached copy of this letter for the questions leading to each of the following responses.

1. As you have stated, the construction permits for each of the six referenced sources associated with the lime plant do require that initial compliance with the particulate matter emission limiting standard be demonstrated using EPA Method 5. When the six permits were issued in 1985, this test requirement was overlooked and it was overlooked again when the initial compliance tests were conducted in 1989.

The reason the Method 5 test requirement was not noticed is that compliance for all of the small baghouses permitted for the CPL cement plant could be demonstrated using EPA Method 9. It was presumed, when the lime plant permits were issued in 1985, that the same test requirement (EPA Method 9) would be the method of demonstrating compliance for these sources. Had the EPA Method 5 test requirement been noticed, CPL would have immediately applied to the Department (in 1985) for an alternative sampling procedure.

One of the reasons that the Method 9 compliance test requirement was requested and granted for the small baghouses associated with the cement plant is that none of the small baghouses are equipped with a stack that would allow EPA Method 5 testing. This same design characteristic holds true with the six baghouses associated with the lime plant. It is common, I'm sure you realized, to not equip small baghouses with stacks as compliance demonstration requirements more often than not require only visible emission testing.

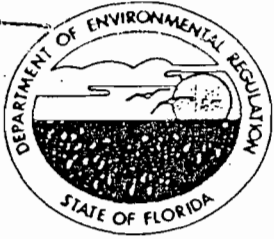
As there are no stacks associated with any of the six subject baghouses as would be required for Method 5 testing, CPL requests that the Department allow testing in accordance with EPA Method 9, with an opacity limit of five percent, as an alternative test procedure. In accordance with Rule 17-2.700(3)(d), FAC (See Attachment 2), the Secretary of the Department or a Deputy Assistant Secretary can grant approval for such an alternative sampling procedure.

We apologize for our oversight of the test requirement and would appreciate your consideration of this matter.

2. The information on the baghouses associated with each of the six referenced sources in the lime plant is included as Attachment 3.
3. The throughput rate specified in the air construction permit application for each of the six referenced sources in the lime plant was based on preliminary engineering design data and projected production rates. As a result of design changes made during the construction of the cement plant and as a result of operational modifications once the plant came on-line, material throughput rates in various parts of the plant have changed.

The six referenced sources are all associated with material handling activities; i.e., screens, storage silos, or storage bins. It is our engineering opinion that changes in throughput rates to such facilities do not affect emissions in any significant way as the emissions being controlled are generated by the movement or transfer of a solid bulk material; not from a production process where emissions are proportional to a production rate. As long as the ventilation rate for an activity is sufficient to collect all of the dust generated and the air-to-cloth ratio of the baghouse controlling emissions is sufficient to handle the ventilating air stream, material throughput rate will have no significant affect on emissions from the baghouse. The fact that no visible emissions were detected at current throughput rates when compliance tests have been conducted is further demonstration that the baghouses are performing adequately.





Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtman, Secretary

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

October 3, 1990.

Mr. Tom Mountain
Environmental Manager
Central Power & Lime, Inc.
P.O. Box 1508
Brooksville, FL 34605-1508

Dear Mr. Mountain:

Re: Hernando County - AP
A027-186140 to 141 and 186143 thru 146

On September 7, 1990, the Department received your six Certificates of Completion of Construction (COCOC) for Air Pollution Sources forms for the CPL Lime Plant which also serve as applications for operation permits. In order to continue processing the applications, the Department will need additional information pursuant to Rule 17-4.070(1), F.A.C.

1. The construction permits for the CPL Lime Plant (AC27-091426 091427, 091429, 091430, 091432 and 091433) require, in Specific Condition No. 2, that an initial Method 5 particulate matter stack test be performed and a report submitted to the Southwest District Office. Specific Condition No. 7 goes on to specify that if the initial performance test showed compliance then subsequent compliance tests could be done as DER Method 9 VE tests. The COCOC's submitted contained only VE tests and no Method 5 particulate tests. Therefore, particulate matter stack tests must be submitted for each source.
2. No information as to the specific manufacturer, model number and specifications of the baghouse control devices has been included with previous application material. This information must be submitted.
3. In the VE test reports, on Table 1, the maximum tested throughput rate and the maximum permitted rate were shown. The maximum throughput rates are not specifically stated in the construction permits, but review of the construction applications shows different maximum throughputs than those shown in the test report. Please explain the differences for each test value versus application value and why each source construction permit/application has not been modified to reflect any changes. (See attached comparison table).



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: Steve Smallwood
FROM: Clair Fancy *CF*
DATE: January 22, 1991
SUBJ: Amendments to Construction Permits AC 27-091426, 27, 29,
30, 32 & 33
Florida Crushed Stone Company

Attached for your approval and signature is a letter amending the above referenced construction permits to allow demonstration of compliance using a visible emissions standard in lieu of performing a mass emissions test for particulate matter pursuant to F.A.C. Rule 17-2.700(3)(d). All of the affected sources are minor and equipped with baghouse control systems.

The Bureau recommends approval of this amendment package.

CF/BM/plm

Attachment

SUMMARY OF CONSTRUCTION PERMIT REVISIONS
FOR FLORIDA CRUSHED STONE COMPANY
CEMENT/POWER/LIME PLANT
BROOKSVILLE, FLORIDA

<u>PERMIT NO.</u>	<u>MODIFICATION</u>	<u>RATIONALE</u>
AC27-61012	Change name from Pre-mix (and limestone) Bins to Filter Dust Bins and extend construction permit until 6/30/87.	Bins are to be used for storing filter dust rather than pre-mix kiln feed and limestone. Dust control remains unchanged.
AC27-61013	Fly Ash Bin - Extend construction permit until 6/30/87.	
AC27-61016	Cement/Power/Lime Plant - Extend construction permit until 6/30/87.	
AC27-61017	Raw Meal Transfer - Extend construction permit until 6/30/87.	
AC27-61019	Change name from Raw Materials Bin Discharge to Lime Rock Bin and extend construction permit until 6/30/87	Lime Rock is one of the raw materials; the name change more explicitly describes use of the bin. Dust control remains unchanged.
AC27-61020	Blending Silo - Extend construction permit until 6/30/87.	
AC27-61021	Change name from Kiln Feed to Kiln Feed Surge Bin and extend construction permit until 6/30/87.	Name change is to make permit more explicit. Dust control remains unchanged.
AC27-61026	Change name from Raw Coal Handling to Clinker Receiving and extend construction permit until 6/30/87.	Raw coal handling system has been modified, as built, and a system to receive imported clinker has been constructed. Permit revision addresses changes to allow handling of clinker in system previously permitted for coal.
AC27-61027	Cooler Discharge - Extend construction permit until 6/30/87.	
AC27-61030	Add the venting of finish mill silo L-07 to this system and extend the construction until 6/30/87.	Permit presently includes the venting of clinker silo L-06. The vent from Finish Mill Bin L-07 will be added to this system. The size and emissions from the baghouse will remain unchanged.

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)	Initial
<i>Oven, Buck</i>	Date
2.	Initial
	Date
3.	Initial
	Date
4.	Initial
	Date

REMARKS:

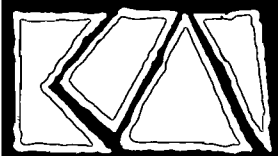
INFORMATION	
<input type="checkbox"/>	Review & Return
<input type="checkbox"/>	Review & File
<input type="checkbox"/>	Initial & Forward
<input type="checkbox"/>	
DISPOSITION	
<input type="checkbox"/>	Review & Respond
<input type="checkbox"/>	Prepare Response
<input type="checkbox"/>	For My Signature
<input type="checkbox"/>	For Your Signature
<input type="checkbox"/>	Let's Discuss
<input type="checkbox"/>	Set Up Meeting
<input type="checkbox"/>	Investigate & Report
<input type="checkbox"/>	Initial & Forward
<input type="checkbox"/>	Distribute
<input type="checkbox"/>	Concurrence
<input type="checkbox"/>	For Processing
<input type="checkbox"/>	Initial & Return

FROM:
*Maher Tambourz
through Bill Thomas*

DATE
11/6/86
PHONE
488-1344

AC27-61032	Change name from Clinker Silo to Gypsum and Limestone Bins and extend construction permit until 6/30/87.	Permit presently includes venting clinker, limestone and gypsum bins. Revision, as built, removes clinker bin vent from this baghouse but does not otherwise change the baghouse system. Name change more accurately reflects source activities.
AC27-61033	Silo Discharges - Extend the construction permit until 6/30/87.	
AC27-61037	Finish Mill - Extend construction permit until 6/30/87.	
AC27-61038	Cement Silo - Extend construction permit until 6/30/87.	
AC27-61040	Add second cement silo vent to baghouse; Increase size of baghouse from 5000 ACFM to 7400 ACFM - Extend construction permit until 6/30/87.	Cement silo presently vented by baghouse Q-15B (AC27-61041) will be vented through baghouse Q-15A and baghouse Q-15A will be increased in size from 5000 ACFM to 7400 ACFM.
AC27-61041	Change name from Cement Silo to Contaminated Flyash and Filter Dust Bin; change size of baghouse from 5000 ACFM to 11,000 ACFM - Extend construction permit until 6/30/87.	Baghouse presently permitted under AC27-61041 will be increased in size from 5000 ACFM to 11,000 ACFM and will be used to control emissions from a contaminated flyash and filter dust bins. The revision results from the elimination of one cement silo and the venting of the two remaining cement silos through the baghouse covered by Permit AC27-61040.
AC27-61042	Revise Permit AC27-61042 to allow use of baghouse Q-15C to control emissions from an iron ore storage bin rather than from a cement silo and to extend Permit AC27-61042 until 6/30/87. There will be no change in the size or emissions from baghouse Q-15C.	The cement silo that was to be vented through baghouse Q-15C will not be constructed. The iron ore bin will require a separate baghouse, and it is proposed to use Q-15C for this purpose.
AC27-091426	Limestone Screening; no change.	
AC27-091427	Limestone Fines Storage Bin; no change.	
AC27-091429	Change name from <u>Limestone</u> Storage Bin to <u>Limedust</u> Storage Bin.	The name better reflects the use of the storage bin.
AC27-091430	Revise Permit AC27-091430 to allow use of baghouse to control emissions from the Ilmerock dryer rather than from a lime storage silo.	Lime storage silo B will not be constructed. It is proposed therefore, to use the baghouse permitted for this silo to control emissions from the limestone dryer.
AC27-091432	Lime Shipping Baghouse; no change.	
AC27-091433	Lime Storage Silo; no change.	

Old	New
1 61012	— 118672 - Filter Dust Bins
1 61013	— 118673 - Storage Bin
1 61016	- 118674 Cement Plant
- 61017	- 118675 - Raw Meal Transfer
- 61019	- 118676 - Lime Rock Bin
- 61020	- 118677 - Blending Silo
- 61021	- 118678 - Film Feed Large Bin
- 61026	- 118680 - Clinker Handling
61041	- 118681 - Contaminated Gypsum + Filter Dust Bin
61042	- 118683 - Baghouse A-15 e
61027 -	- 118684 - Cooler discharge
61030	- 118685 - Finish Mill Silo L-07
61032	- 118686 - Gypsum & Limestone Bin
61033	- 118687 - Silo discharge
61037 61037	- 118688 - Finish Mill
61038	- 118689 - Cement Silo
61040	- 118690 - Cement Silo Baghouse



KOGLER & ASSOCIATES

ENVIRONMENTAL SERVICES

4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
904/377-5822 ■ FAX 377-7158

KA 307-86-04

December 21, 1990

Mr. Clair Fancy
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Fancy:

Central Power & Lime, Inc. requests that the six construction permits (AC27-091426, AC27-091427, AC27-091429, AC27-091430, AC27-091432, and AC27-091433) for the CPL Lime Plant in Brooksville, Florida, be modified to reflect the following amendments:

Specific Condition No. 2

FROM: Particulate matter emissions An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the test.

TO: Particulate matter emissions An initial compliance test using EPA Method 9 shall be submitted to DER's Southwest District office within 45 days after completion of the test.

Specific Condition No. 7

FROM: If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)9(d)6, FAC.

TO: Visible emissions shall not be greater than 5 percent opacity as demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC.

The reasons for these modifications are best explained in my letter of October 22, 1990, to David Zell of your Southwest District Office. Please refer to the attached copy of this letter. Also included in this package is a copy of all the correspondence from the Southwest District Office pertaining to this matter.

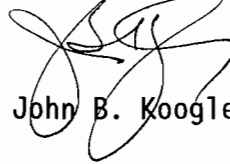
Mr. Clair Fancy
Florida Department
of Environmental Regulation

December 21, 1990
Page 2

As usual, If you have any questions, please feel free to contact me.

Very truly yours,

KOGLER & ASSOCIATES

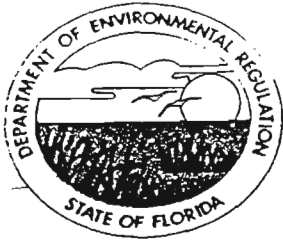


John B. Koogler, Ph.D., P.E.

JBK:wa
Enc.

cc: Mr. J. Pennington, FDER-Tallahassee
Mr. David Zell, FDER-Tampa
Mr. Tom Mountain, FCS CPL
B. Mitchell
B. Thomas, SW Dist





Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5566

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

Dr. Richard Garrity, Deputy Assistant Secretary

RECEIVED
October 29, 1990

DEC 24 1990

DER-BAQM

Mr. Tom Mountain
Environmental Manager
Central Power & Lime, Inc.
P.O. Box 1508
Brooksville, FL 34605-1508

Dear Mr. Mountain:

Re: Hernando County - AP
AO27-186140 to 141 and 186143 thru 146
Lime Plant Operation Permits

Based on questions raised in our letter of October 3, 1990 and the response letter of October 22, 1990 from your consultant, Koogler & Associates, the Southwest District Office has made the following determinations:

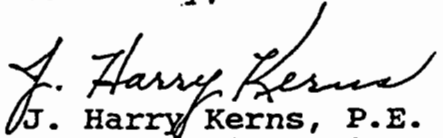
1. Construction permit No. AC27-091430 for Lime Storage Silo B should be voided as this source has not been, nor will it be, constructed. This action must be done by the DER - Tallahassee, Central Air Permitting Section because they issued the original construction permit.
2. Indications are that the limestone dryer discharge transfer point, with particulate emissions controlled by the baghouse originally intended for Limestone Storage Silo B, is operating without a permit. An application for this source must be submitted to DER-Tallahassee and an after-the-fact construction permit obtained.
3. Any waiver of particulate compliance testing requirements pursuant to Rule 17-2.700(3)(d) must be approved by, and obtained from, DER-Tallahassee where the original permits were issued. While the above rule does allow the District Manager to waive the particulate test requirement, the Rule states that waiver shall be specified in the permit issued to the source. The construction permits for the lime plant sources specifically call for an initial EPA Method 5 compliance test (Specific Condition No. 2) and go on to say that subsequent compliance tests may be done by Method 9 VE tests (Specific Condition No. 7). In order to change this requirement and allow the waiver, the original construction permits must be amended.

In order for the Southwest District Office to continue processing the operation permit applications, the above issues must be resolved and finalized. Therefore, Central Power & Lime shall submit a request for the desired changes along with the appropriate application information, to the Central Air Permitting Section at the DER-Tallahassee office. Copies of all correspondence and applications should also be sent to the Air Section of the Southwest District Office of the Department. The applicant shall notify the Air Section of the Southwest District Office when resolution is complete in order to trigger the resumption of processing of the operation permit applications.

"Notice: Pursuant to the provisions of Section 120.600, F.S. and Subsection 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department will issue a final order denying your application. You need to respond within 30 days after you receive this letter, responding to as many of the information requests as possible and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 90 days to develop, an application for new construction should be withdrawn and resubmitted when completed information is available. Or for operating permits, you should develop a specific time table for the submission of the requested information for Department review and consideration. Failure to comply with a time table accepted by the Department will be grounds for the Department to issue a Final Order for Denial for lack of timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can reapply as soon as the requested information is available."

If you have any questions, please call David Zell of my staff at (813) 623-5561 extension 416.

Sincerely,


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

DRZ/

cc: ✓ John B. Koogler, P.E., Koogler & Assoc.
Barry Andrews - CAPS, DER-Tallahassee w/copies of
applications and correspondence



ENVIRONMENTAL SERVICES

4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
904/377-5822 • FAX 377-7158

KA 307-86-04

October 22, 1990

Mr. David Zell
Florida Department of
Environmental Regulation
Southwest District Office
4520 Oak Fair Blvd.
Tampa, FL 33610-7347

Subject: Hernando County AP
Central Power & Lime, Inc.
Response to Department's Letter of
October 3, 1990

Dear Mr. Zell:

This letter is in reference to questions raised during our telephone conversation of September 26, 1990, and the subsequent letter of October 3, 1990, from Harry Kerns to Mr. Tom Mountain of Central Power & Lime, Inc. of Brooksville, Florida. Please refer to the attached copy of this letter for the questions leading to each of the following responses.

1. As you have stated, the construction permits for each of the six referenced sources associated with the lime plant do require that initial compliance with the particulate matter emission limiting standard be demonstrated using EPA Method 5. When the six permits were issued in 1985, this test requirement was overlooked and it was overlooked again when the initial compliance tests were conducted in 1989.

The reason the Method 5 test requirement was not noticed is that compliance for all of the small baghouses permitted for the CPL cement plant could be demonstrated using EPA Method 9. It was presumed, when the lime plant permits were issued in 1985, that the same test requirement (EPA Method 9) would be the method of demonstrating compliance for these sources. Had the EPA Method 5 test requirement been noticed, CPL would have immediately applied to the Department (in 1985) for an alternative sampling procedure.

One of the reasons that the Method 9 compliance test requirement was requested and granted for the small baghouses associated with the cement plant is that none of the small baghouses are equipped with a stack that would allow EPA Method 5 testing. This same design characteristic holds true with the six baghouses associated with the lime plant. It is common, I'm sure you realized, to not equip small baghouses with stacks as compliance demonstration requirements more often than not require only visible emission testing.

As there are no stacks associated with any of the six subject baghouses as would be required for Method 5 testing, CPL requests that the Department allow testing in accordance with EPA Method 9, with an opacity limit of five percent, as an alternative test procedure. In accordance with Rule 17-2.700(3)(d), FAC (See Attachment 2), the Secretary of the Department or a Deputy Assistant Secretary can grant approval for such an alternative sampling procedure.

We apologize for our oversight of the test requirement and would appreciate your consideration of this matter.

2. The information on the baghouses associated with each of the six referenced sources in the lime plant is included as Attachment 3.
3. The throughput rate specified in the air construction permit application for each of the six referenced sources in the lime plant was based on preliminary engineering design data and projected production rates. As a result of design changes made during the construction of the cement plant and as a result of operational modifications once the plant came on-line, material throughput rates in various parts of the plant have changed.

The six referenced sources are all associated with material handling activities; i.e., screens, storage silos, or storage bins. It is our engineering opinion that changes in throughput rates to such facilities do not affect emissions in any significant way as the emissions being controlled are generated by the movement or transfer of a solid bulk material; not from a production process where emissions are proportional to a production rate. As long as the ventilation rate for an activity is sufficient to collect all of the dust generated and the air-to-cloth ratio of the baghouse controlling emissions is sufficient to handle the ventilating air stream, material throughput rate will have no significant affect on emissions from the baghouse. The fact that no visible emissions were detected at current throughput rates when compliance tests have been conducted is further demonstration that the baghouses are performing adequately.



3)



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

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

October 3, 1990

Mr. Tom Mountain
Environmental Manager
Central Power & Lime, Inc.
P.O. Box 1508
Brooksville, FL 34605-1508

Dear Mr. Mountain:

Re: Hernando County - AP
A027-186140 to 141 and 186143 thru 146

On September 7, 1990, the Department received your six Certificates of Completion of Construction (COCOC) for Air Pollution Sources forms for the CPL Lime Plant which also serve as applications for operation permits. In order to continue processing the applications, the Department will need additional information pursuant to Rule 17-4.070(1), F.A.C.

1. The construction permits for the CPL Lime Plant (AC27-091426 091427, 091429, 091430, 091432 and 091433) require, in Specific Condition No. 2, that an initial Method 5 particulate matter stack test be performed and a report submitted to the Southwest District Office. Specific Condition No. 7 goes on to specify that if the initial performance test showed compliance then subsequent compliance tests could be done as DER Method 9 VE tests. The COCOC's submitted contained only VE tests and no Method 5 particulate tests. Therefore, particulate matter stack tests must be submitted for each source.
2. No information as to the specific manufacturer, model number and specifications of the baghouse control devices has been included with previous application material. This information must be submitted.
3. In the VE test reports, on Table 1, the maximum tested throughput rate and the maximum permitted rate were shown. The maximum throughput rates are not specifically stated in the construction permits, but review of the construction applications shows different maximum throughputs than those shown in the test report. Please explain the differences for each test value versus application value and why each source construction permit/application has not been modified to reflect any changes. (See attached comparison table).



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

August 9, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Randy Thompson
Environmental Department
Florida Crushed Stone Company
P. O. Box 490300
Leesburg, Florida 34749-0300

Dear Mr. Thompson:

Re: Expiration Date Extensions for Construction Permits
AC 27-118680, Clinker Handling System
AC 27-118674, Cement Plant Kiln and Clinker Cooler
AC 27-091426, Limestone Screening
AC 27-091427, Limestone Fines Storage Bins
AC 27-091429, Lime Dust Storage Bin
AC 27-091430, Limestone Dryer Discharge
AC 27-091432, Lime Shipping Baghouse
AC 27-091433, Lime Storage Bins
AC 27-117650, Coal Handling

The Department has reviewed the above requests contained in your letter that was received on January 25, 1990. The requests are acceptable and the following will be changed and added:

Expiration Date:

From: September 30, 1989
To: September 30, 1991

Attachment to be Incorporated:

° Dr. John B. Koogler's letter received January 25, 1990.

This letter must be attached to the above referenced construction permits and shall become a part of the permits.

Sincerely,


STEVE SMALLWOOD, P.E.

Director

Division of Air Resources
Management

SS/BM/t

attachment

cc: B. Thomas, SW District
J. Koogler, P.E., K&A



KOUGLER & ASSOCIATES
ENVIRONMENTAL SERVICES
4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
904/377-5822 • FAX 377-7158

RECEIVED
JAN 25 1990
DER-BAA

KA 307-86-04

January 24, 1990

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

Subject: Extension of Construction Permit Expiration Dates
Florida Crushed Stone Company and
Central Power and Lime, Inc.
Brooksville, Florida

Dear Mr. Fancy:

On behalf the Florida Crushed Stone Company and Central Power and Lime, Inc., I would like to request that the expiration dates of the following air construction permits be extended until September 30, 1990:

CEMENT PLANT (Florida Crushed Stone Company)

<u>Permit No.</u>	<u>Description</u>
AC27-118680	Clinker Handling System
AC27-118674	Cement Plant Kiln and Clinker Cooler

The compliance testing on the cement plant kiln and clinker cooler has been completed. The continuous opacity monitor for these plants still needs to be certified and visible emission tests must still be completed on the clinker handling system.

Mr. C.H. Fancy
Re: Florida Crushed Stone Co.

January 24, 1990
Page 2

LIME PLANT (Central Power and Lime, Inc.)

AC27-091426 Limestone Screening
AC27-091427 Limestone Fines Storage Bins
AC27-091429 Lime Dust Storage Bin
AC27-091430 Limestone Dryer Discharge
AC27-091432 Lime Shipping Baghouse
AC27-091433 Lime Storage Bins

Operating problems in the lime plant have been resolved and compliance testing and certification of the continuous opacity monitor for the Power/Lime plant will be scheduled soon.

COAL STORAGE (Central Power and Lime, Inc.)

AC27-117650 Coal Handling

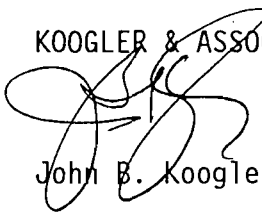
Testing has indicated that some modification is required to the screens on the coal handling system, in order to reduce the opacity of emissions. This matter is presently being evaluated.

Extending the expiration dates of these construction permits to September 30, 1990 will give us the time necessary to address the issues cited above for each of the systems.

Thank you for your consideration. If you have any questions or require additional information, please do not hesitate to give me a call.

Very truly yours,

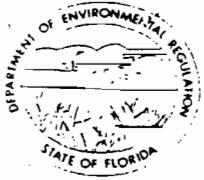
KOOGLER & ASSOCIATES


John B. Koogler, Ph.D., P.E.

JBK:mab

cc: Mr. John Burkman, Central Power and Lime, Inc.
Ms. Linda Swart, Florida Crushed Stone Company





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: Steve Smallwood
FROM: Clair Fancy *CAF*
DATE: August 9, 1990
SUBJ: Amendments to Florida Crushed Stone Co.
Permit Numbers: AC 27-118680, -188674, -091426, -091427,
-091429, -091430, -091432, -091433 & -117650

Attached for your approval and signature is a letter extending the expiration dates for the above referenced construction permits.

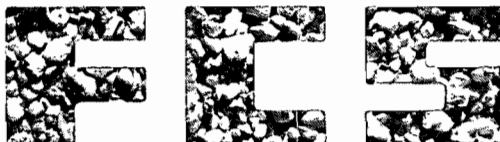
The Bureau recommends approval of this amendment.

CHF/BM/t

attachment

Duplicate

PM
18 May 1988
Brooksville, FL
file copy



FLORIDA CRUSHED STONE COMPANY
CEMENT / POWER / LIME PLANT

May 17, 1988

RECEIVED
MAY 20 1988
DER-BAQM

Mr. C.H. Fancy
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Rd.
Tallahassee, Fl. 32399-2400

Mr. Fancy:

Pursuant to the new specific conditions that were added to the extension of the construction permits for Florida Crushed Stone, Cement/Power/Lime project, the attachment hereto shall identify and provide the status for each permitted source.

If you should have any questions, please contact me at (904) 799-7881, thank you.

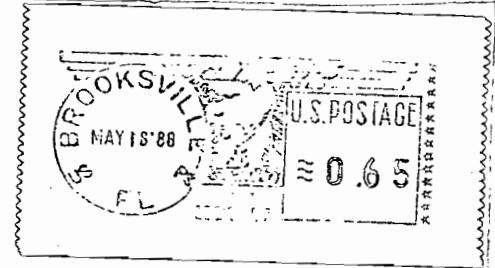
Sincerely,

Steven D. Sandbrook
Safety & Environmental Manager

SDS/dar

- Enclosure: 1. Permit status rpt.
2. DER letter dated Dec. 9, 1987 from Mr. Twachtmann

cc: Fred Crabill, FCS
William A. Nelson, FCS
William Thomas, SW District DER
John Koogler, P.E.



FLORIDA CRUSHED STONE

CEMENT / POWER / LIME DIV.

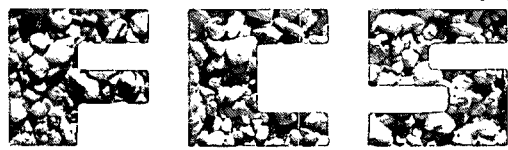
P.O. Box 1508 • 10311 Cement Plant Rd.
Brooksville, FL 33512



TO: Mr. C.H. Fancy
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Rd.
Tallahassee, Fl. 32399-2400

file copy

PM
3.16.88
Tampa, FL



FLORIDA CRUSHED STONE COMPANY

CEMENT / POWER / LIME PLANT

RECEIVED

March 15, 1988

MAR 18 1988

DER-BAQM

Mr. C.H. Fancy
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Rd.
Tallahassee, Fl. 32399-2400

Mr. Fancy:

Pursuant to the new specific conditions that were added to the extension of the construction permits for Florida Crushed Stone, Cement/Power/Lime project, the attachment hereto shall identify and provide the status for each permitted source.

If you should have any questions, please contact me at (904) 799-7881, thank you.

Sincerely,

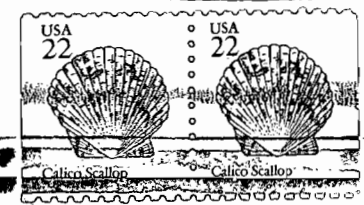
Steven D. Sandbrook
Safety & Environmental Manager

SDS/dar

- Enclosure:
1. Permit status rpt.
 2. DER letter dated Dec. 9, 1987 from Mr. Twachtmann

- cc:
- Fred Crabill, FCS
 - William A. Nelson, FCS
 - William Thomas, SW District DER
 - John Koogler, P.E.

copied: Willard Hanks }
CHF/BT } 3.21.88



FLORIDA CRUSHED STONE

CEMENT / POWER / LIME DIV.

P.O. Box 1508 • 10311 Cement Plant Rd.
Brooksville, FL 33512



TO: Mr. C.H. Fancy
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Rd.
Tallahassee, Fl. 32399-2400

3-22-88
~~CHP~~ } FYI
~~BE~~ }
Li

March 15, 1988

FLORIDA CRUSHED STONE - Cement/Power/Lime

Status Report For January 1, 1988 Through February 29, 1988

Permit No.

AC27-118672, AC27-118673, AC27-118675, AC27-118676, AC27-118677, AC27-118678, AC27-118680, AC27-118681, AC27-118683, AC27-118684, AC27-118685, AC27-118686, AC27-118687, AC27-118688, AC27-118689, AC27-118690, AC27-117650

Status:

The above referenced permits cover emission points which have been constructed and operated during the past month and are expected to be operated in the month to come. Occasionally when market demands for our product are slow or our inventory status is full, we must shut down for a short period of time until it is economically feasible for us to resume operation. All of those referenced permits have undergone visual emission compliance testing during the month of December 1987.

Permit No:

AC27-118674

Status:

The above referenced permit covers an emission point which has been constructed and operated during the past month and is expected to operate in the month to come. Occasionally when market demands for our product are slow or our inventory status is full, we must shut down for a short period of time until it is economically feasible for us to resume operation. This referenced permit has undergone visual emission testing for opacity, SO₂ compliance testing, and will be tested for NO_x emissions by the months end.

Permit No:

AC27-091426, AC27-091427, AC27-091429, AC27-091430, AC27-091432, AC-091433

Status:

The above referenced permits cover emission points which have been constructed, but NOT operated. The lime plant has not been put "on-line" and is not expected to until possibly June 1988.

RECEIVED
12-14-87

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

December 9, 1987

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Browne Gregg
Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32749

Dear Mr. Gregg:

Re: Amendment of Construction Permits

The Department is in receipt of John B. Koogler's November 23, 1987, letter requesting the permits to construct your cement plant, lime plant, and coal storage facility be extended to allow additional time for the compliance testing to be completed, the Certificate of Completion of Construction to be completed and forwarded to the Department's Southwest District office, and the permits to operate to be processed. This request is acceptable, with conditions, and the expiration dates of the following construction permits are extended from December 31, 1987, to June 30, 1988.

Permit No.	Description
<u>CEMENT PLANT</u>	
AC 27-118672	filter dust bins
AC 27-118673	fly ash bins
AC 27-118674	cement kiln, clinker cooler, dryer and raw mill
AC 27-118675	raw mill transfer
AC 27-118676	limerock bin
AC 27-118677	blending silo
AC 27-118678	kiln feed surge bin
AC 27-118680	clinker handling
AC 27-118681	contaminated flyash and filter dust bin
AC 27-118683	iron ore bin
AC 27-118684	cooler discharge
AC 27-118685	clinker silo
AC 27-118686	gypsum and limestone bins

Mr. Browne Gregg
Page Two
December 9, 1987

AC 27-118687	silo discharge
AC 27-118688	finish mill
AC 27-118689	cement silo discharge
AC 27-118690	cement silo

LIME PLANT

AC 27-091426	limestone screening
AC 27-091427	limestone fines storage bins
AC 27-091429	lime dust storage bin
AC 27-091430	limestone storage silo B
AC 27-091432	lime shipping baghouse
AC 27-091433	lime storage bins

COAL STORAGE

AC 27-117650	coal handling
--------------	---------------

The following two new specific conditions are added to each of the extended construction permits for this facility.

- A. Until a complete application for permit to operate this source is received by the SW District, the permittee shall submit monthly status reports by the 15th of each month, beginning in February 1988, listing what action was taken on this source during the preceding month and what action is schedule for the next month.
- B. This source shall not be operated commercially unless the emissions are in compliance with all emission standards listed in the specific conditions of the construction permit.

Attachment to be Incorporated:

11. Letter of John B. Koogler dated November 23, 1987.

Mr. Browne Gregg
Page Three
December 9, 1987

A copy of this letter must be attached to each of the listed permits and shall become part of those permits.

Sincerely,



Dale Twachtman
Secretary

DT/ks

cc: John B. Koogler, P.E.
William C. Thomas, SW District
Fred Crabill, FCS

ATTACHMENT 11

23 Nov 1987
Gainesville, FL

Ka

KOOGLER & ASSOCIATES, Environmental Services

1213 NW 6th Street • Gainesville, Florida 32601 • 904/377-5822

KA 307-86-04

November 23, 1987

DER

NOV 24 1987

J.A.Q.M

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

Subject: Hernando County-AP
Florida Crushed Stone Company
Cement/Power/Lime Plant
Extension of Construction Permits

Dear Mr. Fancy:

The Florida Crushed Stone Company has been issued 24 air construction permits for the construction of a cement/power/lime (C/P/L) plant in Hernando County near Brooksville, Florida. Seventeen of the permits were issued for the cement plant, six permits were issued for the lime plant and one permit was issued for the coal storage area. By letter from the Department, dated April 6, 1987 (copy attached), the expiration date of these permits was extended from June 30, 1987 to December 31, 1987.

By this letter, I am requesting on behalf of the Florida Crushed Stone Company that the expiration dates on all 24 air construction permits again be extended; from December 31, 1987 to June 30, 1988. The permits for which the extension is requested are:

CEMENT PLANT

- | | |
|-------------|-------------|
| AC27-118672 | AC27-118683 |
| AC27-118673 | AC27-118684 |
| AC27-118674 | AC27-118685 |
| AC27-118675 | AC27-118686 |
| AC27-118676 | AC27-118687 |
| AC27-118677 | AC27-118688 |
| AC27-118678 | AC27-118689 |
| AC27-118680 | AC27-118690 |
| AC27-118681 | |

LIME PLANT

AC27-091426
AC27-091427
AC27-091429

AC27-091430
AC27-091432
AC27-091433

COAL STORAGE

AC27-117650

The emission points covered by the cement plant permits have been constructed and operated. Compliance testing has either been completed or will soon be completed on these emission points. Similarly, the coal storage area has been completed and compliance testing has been conducted on this area. Compliance test reports and Certificates of Completion of Construction will be prepared for all cement plant and coal storage emission points within the next few months and submitted to the Department. The requested extension to the expiration date of the construction permits covering these emission points is to allow the compliance testing to be completed, the Certificates of Completion of Construction to be completed and forwarded to your office and operating permits processed.

The emission points in the lime plant are being constructed and will operate in conjunction with the power plant. The start-up of the power plant/lime plant is expected in early 1988. The compliance tests on the lime plant emission points will be conducted soon after the power plant/lime plant complex is on-line. Test reports for these compliance tests and Certificates of Completion of Construction will be forwarded to the Department as soon thereafter as practical.

The power plant portion of the C/P/L complex was permitted under the Power Plant Siting Act by Permit PA82-17. It is our understanding that no special action is required to extend or renew this certification.

I appreciate your consideration of this request. If there are any questions regarding this matter, please do not hesitate to contact me.

Very truly yours,

KOUGLER & ASSOCIATES


John B. Koogler, Ph.D., P.E.

JBK:mab

cc: Mr. W.C. Thomas, FDER, Southwest District Office
Mr. Dick Entorf, Florida Crushed Stone Co., Leesburg
Mr. Fred Crabill, Florida Crushed Stone Co., Leesburg
Mr. Bill Nelson, Florida Crushed Stone Co., C/P/L, Brooksville
Mr. Steve Sandbrook, Florida Crushed Stone Co., C/P/L, Brooksville

Copied Willard Number }
CHF/BT } 12/1/87

P 274 007 584

RECEIPT FOR CERTIFIED MAIL

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

PS Form 3800, June 1985
U.S.G.P.O. 1985-480-794

Mr. Browne Greeg, CEO Florida Crushed Stone Co. Street and No. P.O. Box 317	
P.O., State and ZIP Code Leesburg, FL 32749	
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 Cons. Amendment Dtd. 12/9/87 Mailed: 12/14/87 Permits: AC 27-118672-78, 80-31, -83-90, 091426-...	

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 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 service(s) requested.

- Show to whom, date and address of delivery.
- Restricted Delivery.

3. Article Addressed to: Mr. Browne Gregg
Chairman and CEO
Florida Crushed Stone Company
P.O. Box 317
Leesburg, FL 32749

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P 274 007 584

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

- Signature - Addressee *[Signature]*
- Signature - Agent *[Signature]*
- Date of Delivery

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



DOMESTIC RETURN RECEIPT

file copy

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

December 9, 1987

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32749

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Permit No.	Description
<u>CEMENT PLANT</u>	
AC 27-118672	filter dust bins*
AC 27-118673	fly ash bins*
AC 27-118674 ✓	cement kiln, clinker cooler, ✓ dryer and raw mill
AC 27-118675	raw mill transfer *
AC 27-118676 ✓	limerock bin ✓
AC 27-118677	blending silo*
AC 27-118678	kiln feed surge bin*
AC 27-118680	clinker handling*
AC 27-118681 ✓	contaminated flyash and filter ✓ dust bin
AC 27-118683	iron ore bin*
AC 27-118684	cooler discharge*
AC 27-118685	clinker silo*
AC 27-118686	gypsum and limestone bins*

Mr. Browne Gregg
Page Two
December 9, 1987

AC 27-118687	silo discharge x
AC 27-118688	finish mill x
AC 27-118689	cement silo discharge x
AC 27-118690	cement silo x

LIME PLANT

AC 27-091426	limestone screening ✓
AC 27-091427	limestone fines storage bins ✓
AC 27-091429	lime dust storage bin ✓
AC 27-091430	limestone storage silo B ✓
AC 27-091432	lime shipping baghouse ✓
AC 27-091433	lime storage bins ✓

COAL STORAGE

AC 27-117650	coal handling ✓
--------------	-----------------

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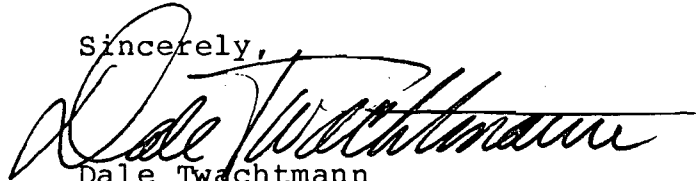
Attachment to be Incorporated:

11. Letter of John B. Koogler dated November 23, 1987.

Mr. Browne Gregg
Page Three
December 9, 1987

A copy of this letter must be attached to each of the listed permits and shall become part of those permits.

Sincerely,

A handwritten signature in cursive script, appearing to read "Dale Twachtman". The signature is written in dark ink and is positioned above the printed name and title.

Dale Twachtman
Secretary

DT/ks

cc: John B. Koogler, P.E.
William C. Thomas, SW District
Fred Crabill, FCS

ATTACHMENT 11

23 Nov. 1987
Gainesville, FL

see copy



KOOGLER & ASSOCIATES, Environmental Services

1213 NW 6th Street • Gainesville, Florida 32601 • 904/377-5822

KA 307-86-04

November 23, 1987

DER
NOV 24 1987
LAQM

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

Subject: Hernando County-AP
Florida Crushed Stone Company
Cement/Power/Lime Plant
Extension of Construction Permits

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| AC27-118677 | AC27-118688 |
| AC27-118678 | AC27-118689 |
| AC27-118680 | AC27-118690 |
| AC27-118681 | |

Mr. C.H. Fancy
Bureau of Air Quality Management

November 23, 1987
Page 2

LIME PLANT

AC27-091426
AC27-091427
AC27-091429

AC27-091430
AC27-091432
AC27-091433

COAL STORAGE

AC27-117650

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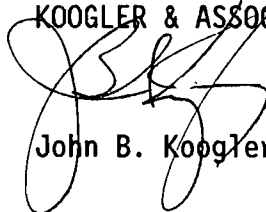
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I appreciate your consideration of this request. If there are any questions regarding this matter, please do not hesitate to contact me.

Very truly yours,

KOOGLER & ASSOCIATES



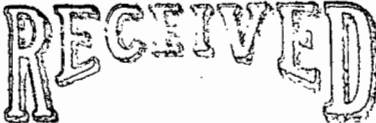
John B. Koogler, Ph.D., P.E.

JBK:mab

- cc: Mr. W.C. Thomas, FDER, Southwest District Office
- Mr. Dick Entorf, Florida Crushed Stone Co., Leesburg
- Mr. Fred Crabill, Florida Crushed Stone Co., Leesburg
- Mr. Bill Nelson, Florida Crushed Stone Co., C/P/L, Brooksville
- Mr. Steve Sandbrook, Florida Crushed Stone Co., C/P/L, Brooksville

*Copied: Willard Nembor }
CHF/BT } 12/1/87*

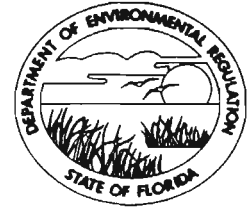
DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP	ACTION NO																																				
	ACTION DUE DATE																																				
1. TO: (NAME, OFFICE, LOCATION): <i>Dale T. Wachtman</i>	INITIAL																																				
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REMARKS:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">INFORMATION</td></tr> <tr><td style="width: 20px;"></td><td>REVIEW & RETURN</td></tr> <tr><td></td><td>REVIEW & FILE</td></tr> <tr><td></td><td>INITIAL & FORWARD</td></tr> <tr><td></td><td></td></tr> <tr><td colspan="2" style="text-align: center;">DISPOSITION</td></tr> <tr><td></td><td>REVIEW & RESPOND</td></tr> <tr><td></td><td>PREPARE RESPONSE</td></tr> <tr><td></td><td>FOR MY SIGNATURE</td></tr> <tr><td></td><td>FOR YOUR SIGNATURE</td></tr> <tr><td></td><td>LET'S DISCUSS</td></tr> <tr><td></td><td>SET UP MEETING</td></tr> <tr><td></td><td>INVESTIGATE & REPT</td></tr> <tr><td></td><td>INITIAL & FORWARD</td></tr> <tr><td></td><td>DISTRIBUTE</td></tr> <tr><td></td><td>CONCURRENCE</td></tr> <tr><td></td><td>FOR PROCESSING</td></tr> <tr><td></td><td>INITIAL & RETURN</td></tr> </table>	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 & REPT		INITIAL & FORWARD		DISTRIBUTE		CONCURRENCE		FOR PROCESSING		INITIAL & RETURN
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<p style="font-size: 2em; font-family: cursive;"><i>For signature</i></p> <hr style="width: 50%; margin: 10px auto;"/> <div style="text-align: center;">  <p style="font-size: 1.2em; margin: 5px 0;">DEC 9 1987</p> <p style="margin: 5px 0;">Office of the Secretary</p> </div>																																					

FROM: *Clair Farney*

DATE *12-8*

PHONE



Interoffice Memorandum

TO: Dale Twachtmann
THRU: Howard Rhodes *HR*
FROM: Clair Fancy *CF*
DATE: December 9, 1987
SUBJ: Amendment of Construction Permits

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

Attached for your approval and signature is a letter that will extend the expiration dates of 24 permits issued for the construction of Florida Crushed Stone Company's cement/power/lime plant in Hernando County. Construction of this facility was delayed because of the recession in the cement industry. The extensions will allow additional time for the permittee to complete the compliance tests and submit the applications for permits to operate. The extensions are not controversial and the Bureau recommends their approval.

CHF/WH/s

attachment

DER

DEC 10 1987

BAQM

P 408 531 582

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	
Fred Crabill	
Florida Crushed Stone Co.	
P.O. Box 300	
P.O., State and ZIP Code	
Leesburg, FL 32749	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$

Postmark or Date
4/10/87
AC: 27-091426,-27,-29,-30,-32,-33,-117650,-118672,-73,-74,-75,-76,-77,-78,-80,-81,-83,-84,-85,-86,-87,-88,

PS Form 3800, Feb. 1982

68-8-9

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 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 service(s) requested.

- Show to whom, ~~date and address of delivery.~~
- Restricted Delivery.

3. Article Addressed to:
Fred Crabill
Florida Crushed Stone Company
P.O. Box 300
Leesburg, FL 32749

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P 408 531 582

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X

6. Signature - Agent
X *[Signature]*

7. Date of Delivery

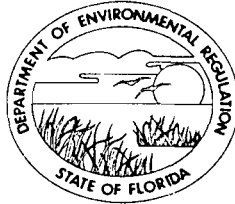
8. Addressee's Address (ONLY if requested and fee paid)

DOMESTIC RETURN RECEIPT

File 1/24

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

April 6, 1987

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Fred Crabill
Environmental Manager
Florida Crushed Stone Company
Post Office Box 300
Leesburg, Florida 32749

Dear Mr. Crabill:

Re: Application for Construction Permits

The department has received your request for change of expiration date. The request has been granted and the following shall be added or changed.

Project: AC 27-091426, -091427, -091429, -091430, -091432, -091433, -091450, -117650, -118672, -118673, -118674, -118675, -118676, -118677, -118678, -118680, -118681, -118683, -118684, -118685, -118686, -118687, -118688, -118689, -118690

FCS?

From: June 30, 1987, Expiration Date
To: December 31, 1987, Expiration Date

Attachment to be Incorporated:

10. Letter of John B. Koogler, March 27, 1987.

This letter must be attached to your construction permits and shall become part of those permits.

Sincerely,

[Handwritten Signature]
Dale Twachtmann
Secretary

DT/ks

cc: John B. Koogler, P.E.
William C. Thomas

RECEIVED

APR 7 1987



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Office of the Secretary

Interoffice Memorandum

FOR ROUTING TO OTHER THAN THE ADDRESSEE

To: _____	Locn: _____
To: _____	Locn: _____
To: _____	Locn: _____
From: _____	Date: _____

TO: Dale Twachtmann

THRU: Howard L. Rhodes *[Signature]*

FROM: Clair Fancy *[Signature]* 8-1344 when signed

DATE: April 6, 1987

SUBJ: Approval and Signature of an Amendment to Construction Permits AC 27-091426, -091427, -091429, -091430, -091432, -091433, -091450, -117650, -118672, -118673, -118674, -118675, -118676, -118677, -118678, -118680, -118681, -118683, -118684, -118685, -118686, -118687, -118688, -118689, and -118690, for Florida Crushed Stone Company, issued March 5, 1985.

Enclosed is an amendment to the referenced construction permits and the bureau recommends approval.

CHF/MH/s

PM

CM: P07 0060771

File Copy

3-26-87

Gainesville, FL

Ka

KOOGLER & ASSOCIATES, Environmental Services

1213 NW 6th Street • Gainesville, Florida 32601 • 904/377-5822

KA 307-86-04

March 26, 1987

DER

MAR 27 1987

BAQM

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. C. H. Fancy
Florida Department of
Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32301

Subject: Florida Crushed Stone Company
Brooksville, Florida CPL Plant
Air Construction Permits

Dear Mr. Fancy:

The Florida Crushed Stone Company (FCS) has been issued 24 air construction permits for a cement/power/lime (CPL) plant being constructed northwest of Brooksville, Florida. The expiration date on seven of these permits is March 30, 1987 and the expiration date on the remaining 17 is June 30, 1986. Part of the plant is completed and production performance tests are underway. The remaining part of the plant is due for completion within the next month. By this letter, we are requesting that the expiration date on all of the air construction permits be extended to September 30, 1987. This will give FCS adequate time to conduct all necessary compliance testing and to submit applications for air operating permits to the Department.

The permits for which we are requesting an expiration date extension are:

- AC27-091426 - Limestone screening
- AC27-091427 - Limestone fines storage bin
- AC27-091429 - Lime dust storage bin
- AC27-091430 - Limestone storage silo B
- AC27-091432 - Lime shipping baghouse
- AC27-091433 - Lime storage silo A
- AC27-117650 - Coal handling
- AC27-118672 - Filter dust bins

Mr. C. H. Fancy
Florida Department of
Environmental Regulation

March 26, 1987

Page 2

AC27-118673 - Fly ash bins
AC27-118674 - Cement kiln, clinker cooler, dryer and raw mill
AC27-118675 - Raw meal transfer
AC27-118676 - Limerock bin
AC27-118677 - Blending silo
AC27-118678 - Kiln feed surge bin
AC27-118680 - Clinker handling
AC27-118681 - Contaminated fly ash and filter dust bin
AC27-118683 - Iron ore bin
AC27-118684 - Cooler discharge
AC27-118685 - Clinker silo
AC27-118686 - Gypsum and limestone bins
AC27-118687 - Silo discharge
AC27-118688 - Finish mill
AC27-118689 - Cement silo discharge
AC27-118690 - Cement silo

If there are any questions regarding this request, please do not hesitate to contact me.

Very truly yours,

KOUGLER & ASSOCIATES



John B. Koogler, Ph.D., P.E.

JBK:app

cc: Mr. Dick Entorf
Mr. Fred Crabill

B. Thomas

M. Tan bug

P 408 532 058

RECEIPT FOR CERTIFIED MAIL

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1. <input type="checkbox"/> Show to whom, date and address of delivery.	
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3. Article Addressed to: Mr. Browne Gregg Florida Crushed Stone Co. P. O. Box 317 Leesburg, FL 32748	
4. Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	Article Number P 408 532 058
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Addressee X	
6. Signature - Agent <i>[Signature]</i>	
7. Date of Delivery	
8. Addressee's Address (ONLY if requested and fee paid)	

DOMESTIC RETURN RECEIPT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
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TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

November 21, 1986

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Browne Gregg
Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32748

Dear Mr. Gregg:

Re: Application for Construction Permit

The department has received your request for change of airflow and total annual emissions. The request has been granted and the following shall be added or changed.

Project: (AC 27-091432)

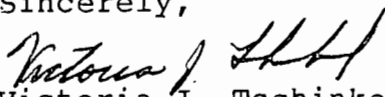
From: Airflow 5000 acfm
To: Airflow 10,000 acfm
and
From: Particulate emissions 2.5 tons/year
To: Particulate emissions 5.1 tons/year

Attachment to be Incorporated:

9. Letter of Fred Crabill, September 4, 1986.

This letter must be attached to your construction permit AC 27-091432 and shall become a part of that permit.

Sincerely,


Victoria J. Tschinkel
Secretary

VJT/ks

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

November 21, 1986

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Browne Gregg
Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32748

Dear Mr. Gregg:

Re: Application for Construction Permit

The department has received your request for change of airflow and total annual emissions. The request has been granted and the following shall be added or changed.

Project: (AC 27-091427)

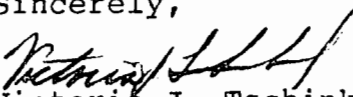
From: Airflow 6000 acfm
To: Airflow 19,000 acfm
and
From: Particulate emissions 3.0 tons/year
To: Particulate emissions 9.6 tons/year

Attachment to be Incorporated:

9. Letter of Fred Crabill, September 4, 1986.

This letter must be attached to your construction permit AC 27-091427 and shall become a part of that permit.

Sincerely,


Victoria J. Tschinkel
Secretary

VJT/ks

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

November 21, 1986

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Browne Gregg
Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32748

Dear Mr. Gregg:

Re: Application for Construction Permit

The department has received your request for change of airflow and total annual emissions. The request has been granted and the following shall be added or changed.

Project: (AC 27-091429)


From: Airflow 9000 acfm
To: Airflow 6300 acfm
and
From: Particulate emissions 4.6 tons/year
To: Particulate emissions 3.2 tons/year

Attachment to be Incorporated:

9. Letter of Fred Crabill, September 4, 1986.

This letter must be attached to your construction permit AC 27-091429 and shall become a part of that permit.

Sincerely,


Victoria J. Tschinkel
Secretary

VJT/ks

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

November 21, 1986

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Browne Gregg
Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32748

Dear Mr. Gregg:

Re: Application for Construction Permit

The department has received your request for change of airflow and total annual emissions. The request has been granted and the following shall be added or changed.

Project: (AC 27-091426)

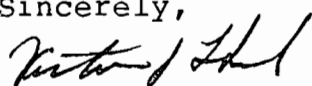
From: Airflow 6000 acfm
To: Airflow 3000 acfm
and
From: Particulate emissions 3.0 tons/year
To: Particulate emissions 1.5 tons/year

Attachment to be Incorporated:

9. Letter of Fred Crabill, September 4, 1986.

This letter must be attached to your construction permit AC 27-091426 and shall become a part of that permit.

Sincerely,


Victoria J. Tschinkel
Secretary

VJT/ks

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

November 21, 1986

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Browne Gregg
Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32748

Dear Mr. Gregg:

Re: Application for Construction Permit

The department has received your request for change of airflow and total annual emissions. The request has been granted and the following shall be added or changed.

Project: (AC 27-091430)

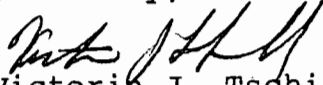
From: Airflow 5000 acfm
To: Airflow 3000 acfm
and
From: Particulate emissions 2.5 tons/year
To: Particulate emissions 1.5 tons/year

Attachment to be Incorporated:

9. Letter of Fred Crabill, September 4, 1986.

This letter must be attached to your construction permit AC 27-091430 and shall become a part of that permit.

Sincerely,


Victoria J. Tschinkel
Secretary

VJT/ks

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

November 21, 1986

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Browne Gregg
Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32748

Dear Mr. Gregg:

Re: Application for Construction Permit

The department has received your request for change of airflow and total annual emissions. The request has been granted and the following shall be added or changed.

Project: (AC 27-091433)

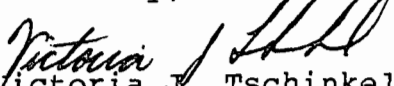
From: Airflow 5000 acfm
To: Airflow 5300 acfm
and
From: Particulate emissions 2.5 tons/year
To: Particulate emissions 2.7 tons/year

Attachment to be Incorporated:

9. Letter of Fred Crabill, September 4, 1986.

This letter must be attached to your construction permit AC 27-091433 and shall become a part of that permit.

Sincerely,


Victoria J. Tschinkel
Secretary

VJT/ks

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

FOR ROUTING TO OTHER THAN THE ADDRESSEE

To: _____ LOCTN: _____
To: _____ LOCTN: _____
To: _____ LOCTN: _____
FROM: _____ DATE: _____

TO: Victoria J. Tschinkel

FROM: C. H. Fancy *[Signature]*

DATE: November 20, 1986

SUBJ: Permit Modification - Florida Crushed Stone Company

Attached for your approval and signature are six letters approving change of airflow and total annual emissions for six air construction permits issued to Florida Crushed Stone Company, Hernando County, Florida.

The bureau recommends these modifications be approved.

CHF/MT/s

Attachments



Received DER

SEP 4 1986

FLORIDA CRUSHED STONE COMPANY

P P S

September 2, 1986

Mr. Hamilton S. Oven
Power Plant Siting Administrator
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

Subject: Florida Crushed Stone Company
Brooksville Cogeneration Facility
Final Order Modifying Conditions of Certification

Dear Mr. Oven:

On June 29, 1986, the Department of Environmental Regulation (Department) entered the Final Order modifying the conditions of certification for the cogeneration facility proposed by the Florida Crushed Stone Company in Brooksville, Florida. In reviewing the Final Order, minor discrepancies were noted in Section 1.A.15 of the certification conditions related to materials handling operations associated with the lime plant.

The hourly and annual particulate matter emission rates for these operations appearing in the Department's Final Order are the rates that originally appeared in the construction permit applications for the six affected operations. On March 10, 1986, however, Dr. Koogler requested that the Department's Bureau of Air Quality Management (BAQM) amend each of the six air pollution construction source permits referenced in Section 1.A.15 of the certification conditions to reflect "as built" conditions. A copy of Dr. Koogler's letter of March 10 to the Department is attached hereto. The BAQM is presently amending each of the permits as requested in Dr. Koogler's letter. It will be noted in the attachment to Dr. Koogler's letter that the revisions to the six permits for the lime plant generally address changes in the air flow rate in each of the systems. Since the hourly and annual particulate matter emission rate associated with each operation is dependent upon the air flow rate, the hourly and annual particulate matter emission rates will change.



Mr. Hamilton S. Owen
Florida Department of
Environmental Regulation

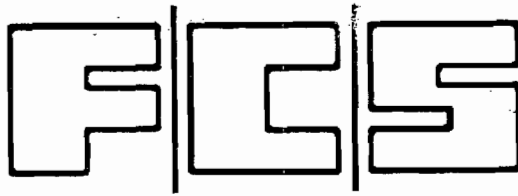
September 2, 1986
Page 2

Following is Condition 1.A.15 as it appears in the Department's Final Order dated June 29, 1986 revised to show the hourly and annual particulate matter emission rates requested in Dr. Koogler's letter of March 10, 1986 to the Department :

15. Particulate emissions from the following sources shall not exceed the following limits:

Source	Permit No.	Emissions			
		(T/Yr)	(Lb/Hr)		
Limestone Screening Baghouse	AC27-091426	3-0	<u>1.5</u>	0-77	<u>0.4</u>
Limestone Storage Bin	AC27-091427	3-0	<u>9.6</u>	0-77	<u>2.4</u>
Limestone Storage Bin	AC27-091429	4-6	<u>3.2</u>	1-16	<u>0.8</u>
Limestone Storage Silo - B	AC27-091430	2-4	<u>1.5</u>	0-64	<u>0.4</u>
Limestone Silo Discharge and Baghouse	AC27-091432	2-4	<u>5.1</u>	0-64	<u>1.3</u>
Limestone Storage Silo - B	AC27-091433	2-4	<u>2.7</u>	0-64	<u>0.7</u>

As summarized in Dr. Koogler's letter of March 10, 1986, the revised particulate matter emission rates associated with the lime plant permits addressed in Condition 1.A.15 of the conditions of certification, when combined with revisions requested in particulate matter emission rates in other permits associated with the cogeneration facility, will result in a net increase of particulate matter emission of 11.8 tons per year. This increase is less than the de minimis particulate matter increase of 25 tons per year defined by Rule 17-2.500 (2) (e2), FAC. Because of the de minimis nature of the particulate matter increases, the requested revisions can be incorporated in to the respective air permits by the Department without a PSD review.



Mr. Hamilton S. Owen
Florida Department of
Environmental Regulation

September 2, 1986
Page 3

I apologize for not having brought these revisions to your attention prior to the Final Order being entered. I would appreciate your effort to modify the Conditions of Certification to reflect the revised particulate matter emission rates. FCS will be glad to provide any additional information that might be required to assist you in this matter.

Very truly yours,

A handwritten signature in cursive script that reads 'Fred Crabill'.

Fred Crabill
Environmental Manager

ls

Enclosures

cc: Richard Entorf
Lawrence Sellers
John Koogler
Bill Nelson



SHOLTES & KOGGLER, ENVIRONMENTAL CONSULTANTS
1213 N.W. 6th Street Gainesville, Florida 32601 (904) 377-5822

SKEC 307-85-03

March 10, 1986

Mr. Bill Thomas
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Subject: Florida Crushed Stone Company
Cement/Power/Lime Plant
Brooksville, Florida
Permit Revisions

Dear Mr. Thomas:

On November 10, 1983, the Florida Crushed Stone Company (FCS) was issued 17 Air Pollution Source Construction Permits for the construction of a cement/power plant in Hernando County, Florida. On March 5, 1985, one of the original 17 permits was modified and six new Air Pollution Source Construction permits were issued to add a lime plant to the facility. On December 31, 1985, the 17 construction permits issued for the cement/power plant expired.

The attached permit package includes applications to renew each of the 17 construction permits. The supporting material (BACT rationale, air quality modeling, flow diagrams, site plans, location maps, etc.) for these applications is in the Department's FCS permit file. This information remains unchanged. Additionally, the "as built" drawings of the plant have recently been reviewed and some minor discrepancies were noted between the original permits and the facility as built. The attached permit applications reflect the "as built" changes. The attached list summarizes all of the construction permits issued for this facility, notes the revision required in the permit, if any, and states the rationale for the revision.

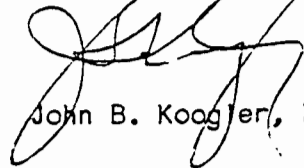
Mr. Bill Thomas
Florida Department of Environmental Regulation

March 10, 1986
Page 2

If there are any questions regarding this material, please do not
hesitate to contact me.

Very truly yours,

SHOLTES & KOOGLER,
ENVIRONMENTAL CONSULTANTS



John B. Koogler, Ph.D., P.E.

JBK:ssc
Enclosures

cc: Mr. R. Fred Crabill

SUMMARY OF CONSTRUCTION PERMIT REVISIONS
FOR FLORIDA CRUSHED STONE COMPANY
CEMENT/POWER/LIME PLANT
BROOKSVILLE, FLORIDA

<u>PERMIT NO.</u>	<u>MODIFICATION</u>	<u>RATIONALE</u>
AC27-61012	Change name from Pre-mix (and limestone) Bins to Filter Dust Bins and extend construction permit until 6/30/87. Air flow increased from 6000 to 6800 acfm increasing particulate emissions from 2.3 to 2.7 tpy.	Bins are to be used for storing filter dust rather than pre-mix kiln feed and limestone. Size of baghouse will be increased.
AC27-61013	Fly Ash Bin - Extend construction permit until 6/30/87 and reduce air flow from 6000 to 4200 acfm. Particulate emissions will decrease from 2.4 to 1.6 tpy.	
AC27-61016	Cement Plant - Extend construction permit until 6/30/87. No other changes.	
AC27-61017	Raw Meal Transfer - Extend construction permit until 6/30/87 and reduce air flow from 2000 to 1200 acfm. Particulate emissions will decrease from 1.0 to 0.6 tpy.	
AC27-61019	Change name from Raw Materials Bin Discharge to Lime Rock Bin and extend construction permit until 6/30/87. Air flow increased from 6000 to 10,500 acfm increasing particulate matter emissions from 3.0 to 4.1 tpy.	Lime Rock is one of the raw materials; the name change more explicitly describes use of the bin. Size of baghouse will be increased.
AC27-61020	Blending Silo - Extend construction permit until 6/30/87 and reduce airflow from 26,000 to 17,000 acfm. Particulate emissions will decrease from 12.7 to 8.3 tpy.	
AC27-61021	Change name from Kiln Feed to Kiln Feed Surge Bin and extend construction permit until 6/30/87. No other changes.	Name change is to make permit more explicit. Dust control remains unchanged.
AC27-61026	Change name from Raw Coal Handling to Clinker Handling and extend construction permit until 6/30/87. Particulate emissions will decrease from 2.9 to 1.3 tpy.	Raw coal handling system has been modified, as built, and a system to receive imported clinker has been constructed. Permit revision addresses changes to allow handling of clinker in system previously permitted for coal.

<u>PERMIT NO.</u>	<u>MODIFICATION</u>	<u>RATIONALE</u>
AC27-61027	Cooler Discharge - Extend construction permit until 6/30/87 and reduce air flow from 6000 to 3000 acfm. Particulate emissions will decrease from 2.9 to 1.5 tpy..	
AC27-61030	Add the venting of finish mill silo L-07 to this system and extend the construction until 6/30/87. Air flow reduced from 5000 to 2600 acfm decreasing particulate emissions from 2.4 to 1.3 tpy.	Permit presently includes the venting of clinker silo L-06. The vent from Finish Mill Bin L-07 will be added to this system. The size and emissions from the baghouse will decrease.
AC27-61032	Change name from Clinker Silo to Gypsum and Limestone Bins and extend construction permit until 6/30/87. No other changes.	Permit presently includes venting clinker, limestone and gypsum bins. Revision, as built, removes clinker bin vent from this baghouse but does not otherwise change the baghouse system. Name change more accurately reflects source activities.
AC27-61033	Silo Discharges - Extend the construction permit until 6/30/87 and reduce air flow from 14,000 to 9000 acfm. Particulate emissions will decrease from 6.9 to 4.4 tpy.	
AC27-61037	Finish Mill - Extend construction permit until 6/30/87 and reduce air flow from 50,000 to 40,000 acfm. Particulate emissions will decrease from 24.5 to 19.6 tpy.	
AC27-61038	Cement Silo - Extend construction permit until 6/30/87 and reduce air flow from 5000 to 3200 acfm. Particulate emissions will decrease from 2.4 to 1.6 tpy.	
AC27-61040	Add second cement silo vent to baghouse; increase size of baghouse from 5000 ACFM to 7400 ACFM and extend construction permit until 6/30/87. Particulate emissions will increase from 2.4 to 3.6 tpy.	Cement silo presently vented by baghouse Q-15B (AC27-61041) will be vented through baghouse Q-15A and baghouse Q-15A will be increased in size from 5000 ACFM to 7400 ACFM.

<u>PERMIT NO.</u>	<u>MODIFICATION</u>	<u>RATIONALE</u>
AC27-61041	Change name from Cement Silo to Contaminated Flyash and Filter Dust Bin; change size of baghouse from 5000 ACFM to 11,000 ACFM and extend construction permit until 6/30/87. Particulate emissions will increase from 2.4 to 5.4 tpy.	Baghouse presently permitted under AC27-61041 will be increased in size from 5000 ACFM to 11,000 ACFM and will be used to control emissions from a contaminated flyash and filter dust bins. The revision results from the elimination of one cement silo and the venting of the two remaining cement silos through the baghouse covered by Permit AC27-61040.
AC27-61042	Revise Permit AC27-61042 to allow use of baghouse Q-15C to control emissions from an iron ore storage bin rather than from a cement silo and to extend Permit AC27-61042 until 6/30/87. Reduce air flow from 5000 to 3200 acfm and reduce particulate emissions from 2.4 to 1.8 tpy.	The cement silo that was to be vented through baghouse Q-15C will not be constructed. The iron ore bin will require a separate baghouse, and it is proposed to use Q-15C for this purpose.
AC27-091426	Limestone Screening. Air flow reduced from 6000 to 3000 acfm reducing particulate emissions from 3.0 to 1.5 tpy.	
AC27-091427	Limestone Fines Storage Bin. Air flow increased from 6000 to 19,000 acfm increasing particulate emissions from 3.0 to 9.6 tpy.	
AC27-091429	Change name from <u>Limestone</u> Storage Bin to <u>Limedust</u> Storage Bin and reduce air flow from 9000 to 6300 acfm. Particulate emissions will decrease from 4.6 to 3.2 tpy.	The name better reflects the use of the storage bin.
AC27-091430	Revise Permit AC27-091430 to allow use of baghouse to control emissions from the limerock dryer rather than from a lime storage silo. Air flow will decrease from 5000 to 3000 acfm and particulate emissions will decrease from 2.5 to 1.5 tpy.	Lime storage silo B will not be constructed. It is proposed therefore, to use the baghouse permitted for this silo to control emissions from the limestone dryer.

PERMIT NO.	MODIFICATION	RATIONALE
AC27-091432	Lime Shipping Baghouse. Air flow increased from 5000 to 10,000 acfm and particulate emissions will increase from 2.5 to 5.1 tpy.	
AC27-091433	Lime Storage Silo. Air flow increased from 5000 to 5300 acfm and particulate emissions will increase from 2.5 to 2.7 tpy.	
Summary of emission changes	<p>There will be a net decrease in particulate matter emissions from emissions presently permitted for the cement/power/lime plant complex of 6.3 tons per year. The change in particulate matter emissions from the total emissions permitted following the PSD review for the cement/power plant complex (including the presently proposed changes and the increases resulting from the addition of the lime plant sources) is an increase of 11.8 tons per year. The de minimis particulate matter increase is 25 tons per year (17-2.500(2)(e)2, Florida Administrative Code.</p>	

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP		ACTION NO	
		ACTION DUE DATE	
1. TO: (NAME, OFFICE, LOCATION)	Initial		
Bill Thomas	Date		
2.	Initial		
	Date		
3.	Initial		
	Date		
4.	Initial		
	Date		
REMARKS: What is the status of the FCS request?		INFORMATION	
		<input type="checkbox"/>	Review & Return
		<input type="checkbox"/>	Review & File
		<input type="checkbox"/>	Initial & Forward
		<input type="checkbox"/>	
		DISPOSITION	
		<input type="checkbox"/>	Review & Respond
		<input type="checkbox"/>	Prepare Response
		<input type="checkbox"/>	For My Signature
		<input type="checkbox"/>	For Your Signature
		<input type="checkbox"/>	Let's Discuss
		<input type="checkbox"/>	Set Up Meeting
		<input type="checkbox"/>	Investigate & Report
		<input type="checkbox"/>	Initial & Forward
		<input type="checkbox"/>	Distribute
<input type="checkbox"/>	Concurrence		
<input type="checkbox"/>	For Processing		
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FROM:	DATE		
Buck Owen	10/29/86		
	PHONE		

P 408 533 202

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
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(See Reverse)

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Mr. Browne Gregg	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
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Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	
4/11/86	

PS Form 3800, Feb. 1982.

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 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 service(s) requested.

1. Show to whom, date and address of delivery.
2. Restricted Delivery.

3. Article Addressed to:
Mr. Browne Gregg
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, Florida 32748

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P 408 533 202

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

5. Signature - Addressee
X

6. Signature - Agent
X *[Signature]*

7. Date of Delivery
15 APRIL *[Signature]*

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

DOMESTIC RETURN RECEIPT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

April 9, 1986

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Browne Gregg
Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32748

Dear Mr. Gregg:

Re: Application for Construction Permits

The department has received your request for the change of project name and extension of the expiration date. The request has been granted and the following shall be added or changed.

Project: (AC 27-091429)

From: Limestone Storage Bin

To: Limedust Storage Bin

Expiration Date: (AC 27-091426, AC 27-091427, AC 27-091429,
AC 27-091432, AC 27-091433)

From: March 31, 1987

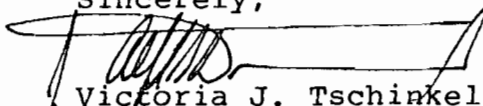
To: June 6, 1987

Attachment to be Incorporated:

8. Letter of J.B. Koogler, February 25, 1986, request to change the source designation from Limestone Storage Bin to Limedust Storage Bin.

This letter must be attached to your construction permit AC 27-091429 and shall become a part of that permit.

Sincerely,


Victoria J. Tschinkel
Secretary

VJT/ks

DER
APR 11 1986
BAQM

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

RECEIVED

FOR ROUTING TO OTHER THAN THE ADDRESSEE

To: _____ LOCTN: _____
To: _____ APR 9 1986 LOCTN: _____
To: _____ LOCTN: _____
From: _____ DATE: _____
Office of the Secretary

TO: Victoria J. Tschinkel
FROM: Clair Fancy *Clair Fancy*
DATE: April 9, 1986
SUBJ: Request to Extend Permits and Change Project Name

Attached for your signature is a letter extending the expiration dates of five air construction permits and changing the source designation of one permit to Florida Crushed Stone Company. The Bureau of Air Quality Management recommends that the changes be approved.

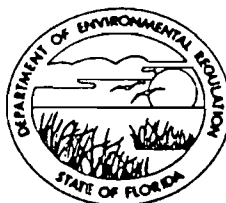
CHF/pa

Attachment

DER
APR 11 1986
BAQM

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER
DISTRICT
3319 MAGUIRE BOULEVARD
SUITE 232
ORLANDO, FLORIDA 32803



DER

MAR 10 1986

BAQM

BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY
ALEX SENKEVICH
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Limestone Screening Baghouse New Existing¹

APPLICATION TYPE: Construction Operation Modification

COMPANY NAME: Florida Crushed Stone Company 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) Limestone Screening
Baghouse

SOURCE LOCATION: Street Cobb Rd.; 2 mi NW of Brooksville City Brooksville

UTM: East 359.998 km North 3162.392 km

Latitude ° ' "N Longitude ° ' "W

APPLICANT NAME AND TITLE: Browne Gregg, Chairman and CEO

APPLICANT ADDRESS: Post Office Box 317, Leesburg, Florida 32748

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co.

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

*Attach letter of authorization

Signed: (Original Signed)

Browne Gregg, Chairman and CEO
Name and Title (Please Type)

Date: Telephone No. (904)787-0608

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

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

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

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



Signed [Signature]

John B. Koogler, Ph.D., P.E.
Name (Please Type)

Sholtes & Koogler, Environmental Consultants
Company Name (Please Type)

1213 NW 6th Street, Gainesville, FL 32601
Mailing Address (Please Type)

Florida Registration No. 12925 Date: _____ Telephone No. (904) 377-5822

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.

Baghouse to control particulate matter emissions from screens following a 140 tph limestone dryer. Particulate emissions will be controlled by a baghouse with a 6.5-1 air to cloth ratio.

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

Start of Construction November 1984 Completion of Construction October 1986

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.)

① Installed cost - \$53,000

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

None

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		
Dried Limestone	Part. Matter	2-3	280,000	B

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

- Total Process Input Rate (lbs/hr): 280,000 max. drying rate
- Product Weight (lbs/hr): 280,000

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/yr	T/yr	
Part Matter	0.4*	1.5	17-2.610FAC	0.4	385	1520	Stack
*Based on	0.015 gr/acf						
Potential	Emissions = 3000 acfm x 60 min/hr x (15 gr/acf/7000) = 385 lbs/hr						
						x 7884/2000	
						= 1520 tpy	

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).

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

Stack Height: 30 ft. Stack Diameter: 2.0 ft.
 Gas Flow Rate: 3000 ACFM 2530 DSCFM Gas Exit Temperature: 150 °F.
 Water Vapor Content: 2-3 % Velocity: 15.9 FPS

1

SECTION IV: INCINERATOR INFORMATION
 NOT APPLICABLE

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

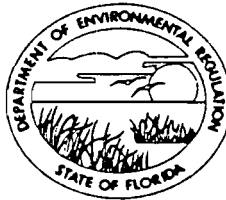
*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: Cyclone Wet Scrubber Afterburner

Other (specify) _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER
DISTRICT
3319 MAGUIRE BOULEVARD
SUITE 232
ORLANDO, FLORIDA 32803



DER

MAR 10 1986

BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ALEX SENKEVICH
DISTRICT MANAGER

BAQM

APPLICATION TO ~~OPERATE~~ CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Limestone Fines Bin for Cement Plant ~~XX~~ New¹ [] Existing¹

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

COMPANY NAME: Florida Crushed Stone Company 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) Limestone Storage Bin

SOURCE LOCATION: Street Cobb Rd.; 2 mi NW of Brooksville City Brooksville

UTM: East 360.000 km North 3162.337 km

Latitude ° ' "N Longitude ° ' "W

APPLICANT NAME AND TITLE: Browne Gregg, Chairman and CEO

APPLICANT ADDRESS: Post Office Box 317, Leesburg, Florida 32748

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co.

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

*Attach letter of authorization

Signed: (Original Signed)

Browne Gregg, Chairman and CEO
Name and Title (Please Type)

Date: Telephone No. (904)787-0608

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

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

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

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



Signed *[Signature]*

John B. Koogler, Ph.D., P.E.
Name (Please Type)

Sholtes & Koogler, Environmental Consultants
Company Name (Please Type)

1213 NW 6th Street, Gainesville, FL 32601
Mailing Address (Please Type)

Florida Registration No. 12925 Date: _____ Telephone No. (904) 377-5822

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.

Baghouse on a limestone fines storage bin associated with the cement plant. The bin receives fines from the screens following the 140 tph limestone dryer. Particulate Emissions will be controlled by a baghouse with a 6.5-1 air to cloth ratio.

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

Start of Construction November 1984 Completion of Construction October 1986

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.)

Installed cost - \$320,000

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

None

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		
Dried Limestone	Part.Matter	4-5	100,000	C
Fines				

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

1. Total Process Input Rate (lbs/hr): 100,000 max. transfer rate
2. Product Weight (lbs/hr): 100,000

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/yr	T/yr	
Part.Matter	2.4*	9.6	17-2.610FAC	2.4	2440	9625	Stack
* Based on 0.015 gr/acf							
Potential Emissions = 19,000 acfm x 60 min/hr x (15 gr/acf/7000) = 2440 lbs/hr							
					x 7884/2000		
					= 9625 tpy		

1

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).

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

Stack Height: 150 ft. Stack Diameter: 3.5 ft.
 Gas Flow Rate: 19,000 ACFM 17,470 DSCFM Gas Exit Temperature: 100 °F.
 Water Vapor Content: 2-3 % Velocity: 32.9 FPS

1

SECTION IV: INCINERATOR INFORMATION

NOT APPLICABLE

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

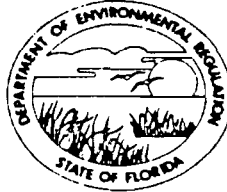
STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

DER

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



MAR 10 1986

BAQM

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

ALEX SENKEVICH DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

1 SOURCE TYPE: Limedust bin for lime plant [x] New¹ [] Existing¹

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

COMPANY NAME: Florida Crushed Stone Company COUNTY: Hernando

Identify the specific emission point source(s) addressed in this application (i.e. Lime

1 Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Limedust storage bin

SOURCE LOCATION: Street Cobb Road, 2 miles NW of City Brooksville

UTM: East (17) 360,005 km North 3162.477 km

Latitude 28 ° 34 ' 57 "N Longitude 82 ° 25 ' 50 "W

APPLICANT NAME AND TITLE: R. Fred Crabill, Environmental Manager

APPLICANT ADDRESS: Florida Crushed Stone Company, P.O. Box 300, Leesburg, FL 32749

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co

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

*Attach letter of authorization

Signed: R. Fred Crabill, Environmental Manager Name and Title (Please Type)

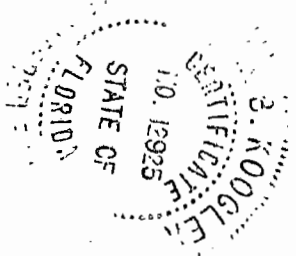
Date: 2/24/86 Telephone No. (904) 787-0608

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 this permit application. There is reasonable assurance, in my professional judgment, that

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

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



Signed [Signature]

John B. Koogler, Ph.D., P.E.
Name (Please Type)

Sholtes & Koogler, Environmental Consultants
Company Name (Please Type)

1213 NW 6th Street, Gainesville, FL 32601
Mailing Address (Please Type)

Florida Registration No. 12925 Date: 2/24/86 Telephone No. (904) 377-5822

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.

①

Baghouse dust collector will vent a lime dust storage bin associated with the new lime plant at the FCS CPL plant. Particulate emissions will be controlled by a baghouse with a 6.5/1 air/cloth ratio. Reduce baghouse size from 9000 acfm to 6300 acfm.

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

Start of Construction November 1984 Completion of Construction June 1987

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.)

①

Installed Cost - \$106,000

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

None

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	Part. Matter	2-3	800,000 max	A

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

1. Total Process Input Rate (lbs/hr): 800,000 max. transfer rate

2. Product Weight (lbs/hr): 800,000

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 Emission ³ lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Part. Matter	0.8*	3.2	17-2.610FAC	0.8	540	2129	Stack
*Based on 0.015 gr/acf.							
Potential Emissions = 6300 cfm x 60 min/hr x (10 gr/acf/7000) lb/ft ³ = 540 lbs/hr							
x 7884/2000							
= 2129 Tpy.							

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).

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

Stack Height: 100 ft. Stack Diameter: 2.5 ft.
 Gas Flow Rate: 6300 ACFM 5610 DSCFM Gas Exit Temperature: 120 °F.
 Water Vapor Content: 2.3 % Velocity: 21.4 FPS

1

SECTION IV: INCINERATOR INFORMATION

NOT APPLICABLE

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
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 devices: Cyclone Wet Scrubber Afterburner
 Other (specify) _____

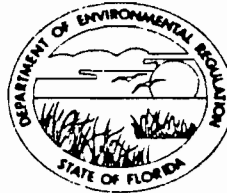
STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

DER

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



MAR 10 1986

BAQM

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKE SECRETARY

ALEX SENKEVIC DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

1 SOURCE TYPE: Limerock Dryer Discharge [x] New¹ [] Existing¹

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

COMPANY NAME: Florida Crushed Stone Company COUNTY: Hernando

1 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) Limerock Dryer Discharge

SOURCE LOCATION: Street Cobb Road, 2 miles NW of City Brooksville

UTM: East (17) 360.135 km North 3162.110 km

Latitude 28 ° 34 ' 57 "N Longitude 82 ° 25 ' 50 "W

APPLICANT NAME AND TITLE: R. Fred Crabill, Environmental Manager

APPLICANT ADDRESS: Florida Crushed Stone Company, P.O. Box 300, Leesburg, FL 32749

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone

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

*Attach letter of authorization

Signed: [Signature] R. Fred Crabill, Environmental Manager Name and Title (Please Type)

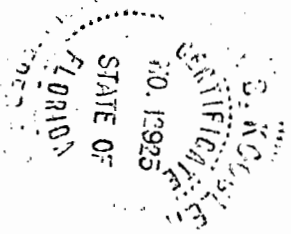
Date: 2/24/86 Telephone No. (904) 787-0608

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 this permit application. There is reasonable assurance, in my professional judgment, that

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

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



Signed [Signature]
John B. Koogler, Ph.D., P.E.
Name (Please Type)
Sholtes & Koogler, Environmental Consultants
Company Name (Please Type)
1213 NW 6th Street, Gainesville, FL 32601
Mailing Address (Please Type)

Florida Registration No. 12925 Date: 3/7/86 Telephone No. (904) 377-5822

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.

①

Revise Permit No. AC27-019430 to use baghouse to control emissions as limerock is discharged from the limerock dryer to conveyor belt rather than from a lime silo. The size of the baghouse and emissions from the baghouse will be reduced and the baghouse will operate in full compliance.

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

Start of Construction November 1984 Completion of Construction June 1987

C. Costs of pollution control system(a): (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.)

①

Installed Cost - \$50,000

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

Permit No. AC27-091430 issued 3/5/85 and expiring 3/31/87.

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

Stack Height: 8 ft. Stack Diameter: 1.5 ft.
 Gas Flow Rate: 3,000 ACFM 2410 DSCFM Gas Exit Temperature: 180 °F.
 Water Vapor Content: 2-3 % Velocity: 28.3 FPS

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					

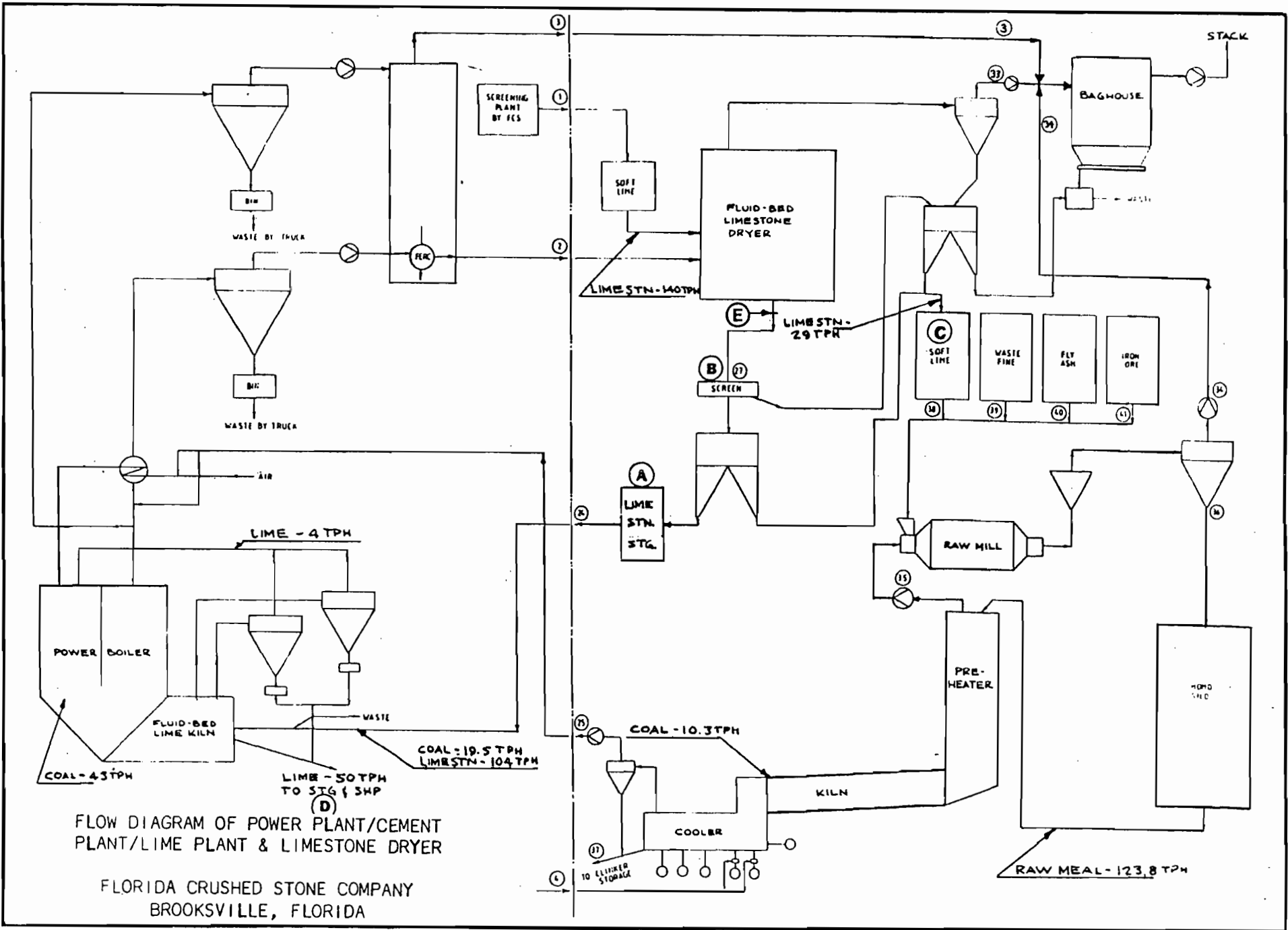
Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____

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) _____

① - REVISED 2/24/86



FLOW DIAGRAM OF POWER PLANT/CEMENT PLANT/LIME PLANT & LIMESTONE DRYER

FLORIDA CRUSHED STONE COMPANY
BROOKSVILLE, FLORIDA

ATTACHMENT 2

①

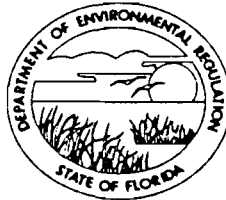
STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

DER

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



MAR 10 1986

BAQM

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

ALEX SENKEVICH DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Lime Shipping [X] New¹ [] Existing¹

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

COMPANY NAME: Florida Crushed Stone Company COUNTY: Hernando

Identify the specific emission point source(s) addressed in this application (i.e. Lime Discharge & Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Lime Silo Baghouse

SOURCE LOCATION: Street Cobb Rd.; 2 mi NW of Brooksville City Brooksville

UTM: East 360.135 km North 3162.110 km

Latitude ° ' "N Longitude ° ' "W

APPLICANT NAME AND TITLE: Browne Gregg, Chairman and CEO

APPLICANT ADDRESS: Post Office Box 317, Leesburg, Florida 32748

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co.

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

*Attach letter of authorization

Signed: (Original Signed)

Browne Gregg, Chairman and CEO Name and Title (Please Type)

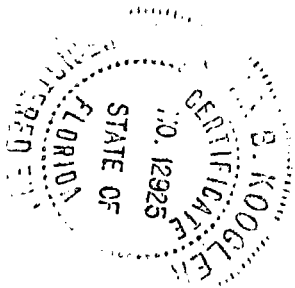
Date: Telephone No. (904)787-0608

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

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

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

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



Signed *[Signature]*

John B. Koogler, Ph.D., P.E.
Name (Please Type)

Sholtes & Koogler, Environmental Consultants
Company Name (Please Type)

1213 NW 6th Street, Gainesville, FL 32601
Mailing Address (Please Type)

Florida Registration No. 12925 Date: _____ Telephone No. (904) 377-5822

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.

Baghouse to control emissions from the bulk loading of lime under lime silos. Maximum loadout rate will be 200 tph. Particulate emissions will be controlled by a baghouse with a 6.5-1 air to cloth ratio.

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

Start of Construction November 1984 Completion of Construction October 1986

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.)

Installed cost - \$168,000.

1

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

None

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		
Lime	Part.Matter	3-4	400,000	D

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

- Total Process Input Rate (lbs/hr): 400,000 max. transfer rate
- Product Weight (lbs/hr): 400,000

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/yr	T/yr	
Part.Matter	1.3*	5.1	17-2.610FAC	1.3	1714	6756	Stack
* Based on 0.015 gr/acf.							
Potential Emissions = 10,000 acfm x 60 min/hr x (20 gr/acf/7000) = 1714 lb/hr							
					x 7884/2000		
					= 6756 tpy		

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).

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

Stack Height: 50 ft. Stack Diameter: 2.25 ft.
 Gas Flow Rate: 10,000 ACFM 8300 DSCFM Gas Exit Temperature: 160 °F.
 Water Vapor Content: 2-3 % Velocity: 41.9 FPS

1

SECTION IV: INCINERATOR INFORMATION
 NOT APPLICABLE

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

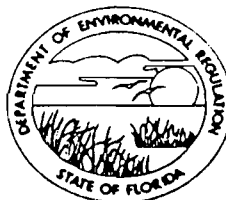
*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

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

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER
DISTRICT

3319 MAGUIRE BOULEVARD
SUITE 232
ORLANDO, FLORIDA 32803



DER

MAR 10 1986

BAQM

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

ALEX SENKEVICH
DISTRICT MANAGER

APPLICATION TO ~~OPERATE~~/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Lime Storage Silo New¹ Existing¹

APPLICATION TYPE: Construction Operation Modification

COMPANY NAME: Florida Crushed Stone Company 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) Lime Storage Silo A

SOURCE LOCATION: Street Cobb Rd.; 2 mi NW of Brooksville City Brooksville

UTM: East 360.135 km North 3162.110 km

Latitude ° ' "N Longitude ° ' "W

APPLICANT NAME AND TITLE: Browne Gregg, Chairman and CEO

APPLICANT ADDRESS: Post Office Box 317, Leesburg, Florida 32748

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co.

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

*Attach letter of authorization

Signed: (Original Signed)

Browne Gregg, Chairman and CEO
Name and Title (Please Type)

Date: Telephone No. (904)787-0608

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)

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		
Lime	Part. Matter	3-4	100.000	D

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

1. Total Process Input Rate (lbs/hr): 100,000

2. Product Weight (lbs/hr): _____

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

Name of Contaminant	Emission ¹		Allowed ² Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Part. Matter	0.7*	2.7	17-2.610FAC	0.7	904	3564	Stack
*Based on 0.015 gr/acf							
Potential Emissions = 5300 acfm x 60 min/hr x (20 gr/acf/7000) = 904 lbs/hr							
					x 7884/2000		
					= 3564 tpy		

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).

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

Stack Height: 200 ft. Stack Diameter: 1.5 ft.
 Gas Flow Rate: 5300 ACFM 4260 DSCFM Gas Exit Temperature: 180 °F.
 Water Vapor Contents: 2-3 % Velocity: 50.0 FPS

1

SECTION IV: INCINERATOR INFORMATION
 NOT APPLICABLE

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

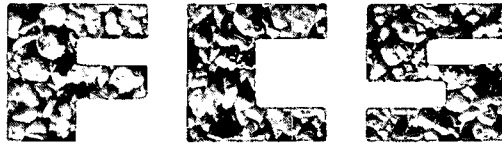
Description of Waste _____
 Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____
 Approximate Number of Hours of Operation per day _____ day/wk. _____ wks/yr. _____
 Manufacturer _____
 Date Constructed _____ Model No. _____

	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) _____



FLORIDA CRUSHED STONE COMPANY

February 12, 1985

DER

FEB 15 1985

BAQM

Mr. C. H. Fancy, P.E.
Bureau of Air Quality Management
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

Dear Mr. Fancy:

As required by your letter of January 4, 1985, attached please find one proof of publication of the Notice of Proposed Agency Action for the construction of a limestone handling and storage system at Florida Crushed Stone's Facility in Brooksville, Hernando County Florida.

Please excuse the delay in receiving this information. I have been in contact with Mr. Ed Svec of your staff and explained that the original affidavits were apparently lost in the mail. The Sun-Journal then mailed FCS a second copy which arrived on February 12, 1985.

Should you have any questions on this matter, please do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Fred Crabill".

Fred Crabill
Environmental Manager

ls

Enclosure

cc: F. Browne Gregg
Richard Entorf
Larry Walker
Larry Curtin

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 Raymond K. Mooney, 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 mat-

ter of Notice of Proposed Agency Action

in the _____ Court
was published in said newspaper in the issues of

Jan 22, 1985

Affiant further 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.

Raymond K. Mooney

Raymond K. Mooney, General Manager, The Sun-Journal

Sworn to and subscribed before me this 22nd day of

Jan 1985 A.D.

NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXPIRES AUG 6 1986
BONDED FOR GENERAL INS. UNDERWRITERS

Notary Public

Filed .. 19 .. at .. O'clock .. M. and Recorded in .. Book No ..

Page ..

Record Verified ..

Clerk, .. Court, Hernando County, Fla.

By .. D.C.

State of Florida
Department of
Environmental
Regulation
Notice of Proposed
Agency Action
on Permit
Applications

The Department of Environmental Regulation gives notice of its intent to issue permits to Florida Crushed Stone Company to construct a limestone handling and storage system at the applicant's existing facility on Cobb Road, two miles northwest of Brooksville, Hernando County, Florida. A determination of best available control technology (BACT) was not required. Persons 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 conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Office of General Counsel of the Department at 2500 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing 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. 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 preliminary statement. Therefore, persons who may not object to the proposed agency action may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least, five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes. The application is available for public inspection during normal business hours; 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:
Dept. of Environmental Regulation
Southwest District
7601 Highway 30 North
Tampa, Florida 33610
Dept. of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the department's final determination.
PUBLISH: Jan. 22, 1985

P 408 532 043

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982

Sent to Mr. Fred Crabill	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 8/28/86	

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 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. <u>The return receipt fee will provide you the name of the person delivered to and the date of delivery.</u> For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.	
1. <input type="checkbox"/> Show to whom, date and address of delivery.	
2. <input type="checkbox"/> Restricted Delivery.	
3. Article Addressed to: Mr. Fred Crabill Florida Crushed Stone Co. P. O. Box 317 Leesburg, FL 32748	
4. Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	Article Number P 408 532 043
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Addressee X	
6. Signature - Agent X <i>[Signature]</i>	
7. Date of Delivery	
8. Addressee's Address (ONLY if requested and fee paid) 9-2-86	

DOMESTIC RETURN RECEIPT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

Mr. R. Fred Crabill
Environmental Manager
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32748

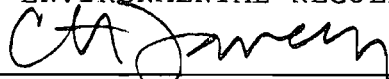
August 27, 1986

Enclosed are Permit Numbers AC 27-118672, 118673, 118674, 118675, 118676, 118677, 118678, 118680, 118681, 118683, 118684, 118685, 118686, 118687, 118688, 118689, and 118690 to Florida Crushed Stone Company to renew and modify construction permits issued for Florida Crushed Stone Company's cement/power plant facility in Brooksville, Hernando County, 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 32301; 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


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

Copies furnished to:

John B. Koogler, P.E.
Jim Estler
Lawrence Sellars

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on August 28, 1940 to the listed persons.

Final Determination

Florida Crushed Stone Company
Hernando County
Brooksville, Florida

State Permit Numbers:

AC 27-118672	AC 27-118681
AC 27-118673	AC 27-118683
AC 27-118674	AC 27-118684
AC 27-118675	AC 27-118685
AC 27-118676	AC 27-118686
AC 27-118677	AC 27-118687
AC 27-118678	AC 27-118688
AC 27-118680	AC 27-118689
	AC 27-118690

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

August 25, 1986

Final Determination

The construction applications have been reviewed by the department. Public Notice of the department's intent to issue was published in the Brooksville Sun-Journal on June 28, 1986. The Technical Evaluation and Preliminary Determination were available for public inspection at the Southwest District office and the Bureau of Air Quality Management office.

Florida Crushed Stone (FCS) submitted comments on the draft permits to the bureau on July 25, 1986. FCS's comments and the bureau's responses follow.

It was requested by the applicant that the particulate matter emission rates specified in the permits be changed slightly. It was also requested that the department allow FCS to demonstrate compliance with the particulate matter emission limits using EPA Method 9. The department has agreed to allow an alternative standard of 5% opacity in lieu of a Method 5 particulate test for the minor particulate sources equipped with a baghouse per Rule 17-2.700(3)(d), FAC. For the finish mill baghouse, Permit No. AC 27-118688, a one-time Method 5 test shall be required to show compliance with the particulate limit. If compliance is clearly achieved, then an alternate standard of 5% opacity will be allowed thereafter. In addition the department has decided to require the use of DER Method 9 instead of EPA Method 9 as requested by the applicant.

The department has approved most of these changes and the final permit conditions reflect these requests.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118672
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Filter Dust Bins

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:

Change name from Pre-mix (and limestone) Bins to Filter Dust Bins and extend construction permit until 6/30/87. Air flow increased from 6000 to 6800 acfm increasing particulate emissions from 2.3 to 2.7 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118672
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118672
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118672
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118672
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the filter dust bins baghouse shall not exceed 0.7 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118673
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Fly Ash Bins

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:

Fly Ash Bin - Extend construction permit until 6/30/87 and reduce air flow from 6000 to 4200 acfm. Particulate emissions will decrease from 2.4 to 1.6 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118673
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118673
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118673
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118673
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the fly ash bin baghouse shall not exceed 0.4 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118673
Expiration Date: June 30, 1987

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be assumed if the alternative standard listed in Specific Condition No. 3 is met (Rule 17-2.700(3)(d), FAC).
5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.
6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patricia Lee for Peggy Brown 8/27/86
Clerk Date

Issued this 26 day of August,
1986.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Victoria J. Tschinkel
VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118674
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Cement Kiln, Clinker
Cooler, Dryer and Raw Mill

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:

Cement Plant - Extend construction permit until 6/30/87. No other changes.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 - 7, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118674
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118674
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118674
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118674
Expiration Date: June 30, 1987

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. Except as required pursuant to DER's BACT determination the proposed cement plant construction shall be carried out in accordance with the statements in the application and additional information supplied by the permittee.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118674
Expiration Date: June 30, 1987

SPECIFIC CONDITIONS:

2. The emission rates from the kiln and cooler shall not exceed the emission limits and maximum allowable emissions listed below:

Pollutant	Emission Limits		Maximum Allowable Emissions	
	lb/ton of kiln of feed		lb/hr	tons/yr
PM (cooler)	0.1		12.4	54
PM (kiln)	0.3		37.1	162
SO ₂	0.6		50.0	219
NO _x	2.9		359.0	1572

3. This source shall be allowed to operate continuously, (8,760) hours per year.

4. Visible emissions from the kiln, cooler, dryer or raw mill shall not be greater than 10 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

5. Compliance with the particulate emission limits in Specific Condition No. 2 shall be demonstrated in accordance with the EPA Reference Method 5 in Appendix A, 40 CFR 60, as set forth in subsection 60.64 of the NSPS for Portland Cement Plants, 40 CFR 60.60.

6. Compliance with the SO₂ and NO_x emission limits in Specific Condition No. 2 shall be demonstrated in accordance with EPA Methods 6 and 7, respectively, in 40 CFR 60, Appendix A.

7. The maximum coal consumption in the kiln shall not exceed 10.3 tons per hour.

8. Instruments shall be installed, calibrated, and maintained to continuously measure the amounts of coal used in the kiln, material fed to the kiln, and clinker produced. The records of fuel usage with the fuel analysis, daily kiln feed and clinker produced shall be reported quarterly to the DER Southwest District office.

9. In accordance with Rule 17-2.700(4), FAC, the stack sampling configuration of the proposed kiln shall comply with the maximum of 2D downstream and 0.5 upstream distances to any fan, bend, constriction, or other flow disturbance.

10. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118675
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Raw Meal Transfer

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:

Raw Meal Transfer - Extend construction permit until 6/30/87 and reduce air flow from 2000 to 1200 acfm. Particulate emissions will decrease from 1.0 to 0.6 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118675
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118675
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118675
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118675
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the raw meal baghouse shall not exceed 0.2 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118676
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Lime Rock 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:

Change name from Raw Materials Bin Discharge to Lime Rock Bin and extend construction permit until 6/30/87. Air flow increased from 6000 to 10,500 acfm increasing particulate matter emissions from 3.0 to 4.1 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118676
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118676
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118676
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118676
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the lime rock bin baghouse shall not exceed 1.1 pounds per hour.
- 2. This source shall be allowed to operate continuously, 8,760 hours per year.
- 3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118677
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Blending Silo

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:

Blending Silo - Extend construction permit until 6/30/87 and reduce airflow from 26,000 to 17,000 acfm. Particulate emissions will decrease from 12.7 to 8.3 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118677
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118677
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118677
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118677
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the blending silo baghouse shall not exceed 2.2 pounds per hour.
- 2. This source shall be allowed to operate continuously, 8,760 hours per year.
- 3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118678
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Kiln Feed Surge 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:

Change name from Kiln Feed to Kiln Feed Surge Bin and extend construction permit until 6/30/87. No other changes.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118678
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118678
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118678
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118678
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the kiln feed surge bin baghouse shall not exceed 0.8 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118680
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Clinker Handling

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:

Change name from Raw Coal Handling to Clinker Handling and extend construction permit until 6/30/87. Particulate emissions will decrease from 2.9 to 1.3 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118680
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118680
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118680
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118680
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the clinker handling system shall not exceed 0.7 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. If visible emissions are greater than 10 percent opacity (6 minute avg.) as determined by DER Method 9 (Rule 17-2.700(6)(a)9., FAC), the company shall install hoods, ducts, and air pollution control equipment that will reduce the emissions to the standard listed in Specific Condition No. 1.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118680
Expiration Date: June 30, 1987

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be assumed if Specific Condition No. 3 is met.
5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.
6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.
7. A water spray system shall be installed and used as necessary to control fugitive dust emissions during clinker unloading operation from train cars or trucks to the receiving hopper.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patricia Lee for Peggy Brown 8/27/86
Clerk Date

Issued this 26 day of August,
1986.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Victoria J. Tschinkel
VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118681
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Contaminated Flyash and
Filter Dust 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:

Change name from Cement Silo to Contaminated Flyash and Filter Dust Bin; change size of baghouse from 5000 acfm to 11,000 acfm and extend construction permit until 6/30/87. Particulate emissions will increase from 2.4 to 5.4 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118681
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118681
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118681
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118681
Expiration Date: June 30, 1987

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.

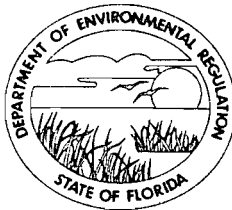
15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the flyash and filter dust baghouse shall not exceed 1.41 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118683
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Iron Ore Bin (Q-15C)

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:

Revise Permit AC 27-61042 to allow use of baghouse Q-15C to control emissions from an iron ore storage bin rather than from a cement silo and to extend Permit AC 27-61042 until 6/30/87. Reduce air flow from 5000 to 3200 acfm and reduce particulate emissions from 2.4 to 1.8 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118683
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118683
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118683
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118683
Expiration Date: June 30, 1987

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.

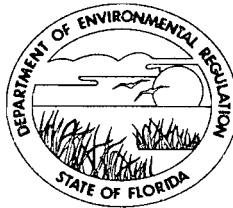
15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the iron ore storage bin baghouse shall not exceed 0.5 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118684
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Cooler Discharge

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:

Cooler Discharge - Extend construction permit until 6/30/87 and reduce air flow from 6000 to 3000 acfm. Particulate emissions will decrease from 2.9 to 1.5 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118684
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118684
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118684
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118684
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the cooler discharge baghouse shall not exceed 0.4 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118685
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Clinker Silo (L-06)

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:

Add the venting of finish mill silo L-07 to this system and extend the construction permit until 6/30/87. Air flow reduced from 5000 to 2600 acfm decreasing particulate emissions from 2.4 to 1.3 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118685
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118685
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118685
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118685
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the clinker silo baghouse shall not exceed 0.3 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118686
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Gypsum and Limestone Bins

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:

Change name from Clinker Silo to Gypsum and Limestone Bins and extend construction permit until 6/30/87. No other changes.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118686
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118686
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118686
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118686
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the gypsum and limestone bins baghouse shall not exceed 0.6 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118687
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Silo Discharge

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:

Silo Discharges - Extend the construction permit until 6/30/87 and reduce air flow from 14,000 to 9000 acfm. Particulate emissions will decrease from 6.9 to 4.4 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118687
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118687
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118687
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118687
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the silo discharge baghouse shall not exceed 1.2 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118687
Expiration Date: June 30, 1987

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be assumed if the alternative standard listed in Specific Condition No. 3 is met (Rule 17-2.700(3)(d), FAC).
5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.
6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patricia Lopez Peggy Brown 8/27/86
Clerk Date

Issued this 26 day of August, 1986.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Victoria J. Tschinkel
VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118688
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Finish Mill

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:

Finish Mill - Extend construction permit until 6/30/87 and reduce air flow from 50,000 to 40,000 acfm. Particulate emissions will decrease from 24.5 to 19.6 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118688
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118688
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118688
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118688
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the finish mill baghouse shall not exceed 5.1 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118689
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Cement Silo Discharge

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:

Cement Silo - Extend construction permit until 6/30/87 and reduce air flow from 5000 to 3200 acfm. Particulate emissions will decrease from 2.4 to 1.6 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118689
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118689
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118689
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118689
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the cement silo discharge baghouse shall not exceed 0.4 pounds per hour.
2. This source shall be allowed to operate continuously, 8,760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 300
Leesburg, Florida 32749

Permit Number: AC 27-118690
Expiration Date: June 30, 1987
County: Hernando
Latitude/Longitude: 28° 35' 00" N
82° 25' 53" W
Project: Cement Silo (Q-15A)

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:

Add second cement silo vent to baghouse; increase size of baghouse from 5000 acfm to 7400 acfm and extend construction permit until 6/30/87. Particulate emissions will increase from 2.4 to 3.6 TPY.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118690
Expiration Date: June 30, 1987

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 Crushed Stone Co.

Permit Number: AC 27-118690
Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118690
Expiration Date: June 30, 1987

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) Determination of Best Available Control Technology (BACT)
- (X) 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 Crushed Stone Co.

Permit Number: AC 27-118690
Expiration Date: June 30, 1987

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 allowable particulate emission rate from the cement silo baghouse shall not exceed 1.0 pounds per hour.
- 2. This source shall be allowed to operate continuously, 8,760 hours per year.
- 3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.

Permit Number: AC 27-118690
Expiration Date: June 30, 1987

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be assumed if the alternative standard listed in Specific Condition No. 3 is met (Rule 17-2.700(3)(d), FAC).
5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.
6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patricia Lee for Peggy Brown
Clerk

8/27/86
Date

Issued this 26 day of August,
1986.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Victoria J. Tschinkel
VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

TO: Victoria J. Tschinkel
FROM: Clair Fancy *Clair Fancy*
DATE: August 25, 1986
SUBJ: Approval of Air Construction Permits

FOR ROUTING TO OTHER THAN THE ADDRESSEE	
To: _____	LOCTN: _____
To: _____	LOCTN: _____
To: _____	LOCTN: _____
From: _____	DATE: _____

RECEIVED
AUG 25 1986

Office of the Secretary

Attached for your approval and signature are seventeen air construction permits for Florida Crushed Stone Company to renew and modify construction permits issued for the applicant's cement/power plant facility in Brooksville, Hernando County, Florida.

Day 90, after which the permits would be issued by default, is Thursday, August 28, 1986.

The Bureau recommends your approval and signature.

CF/pa

Attachment

No. **0155799**
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO Mr.: Browne Gregg			
STREET AND NO.			
P.O., STATE AND ZIP CODE			
POSTAGE	\$		
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	¢	
	SPECIAL DELIVERY	¢	
	RESTRICTED DELIVERY	¢	
	OPTIONAL SERVICES	SHOW TO WHOM AND DATE DELIVERED	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢	
TOTAL POSTAGE AND FEES	\$		
POSTMARK OR DATE 1/4/85			

PS Form 3800, Apr. 1976

Telephone call 1/10/85 by Ed Suel - Mr. Crushed Stone Co. verified receipt on 1/8/85

PS Form 3811, Jan. 1979

SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
 Show to whom and date delivered. ¢
 Show to whom, date and address of delivery. ¢
 RESTRICTED DELIVERY
 Show to whom and date delivered. ¢
 RESTRICTED DELIVERY.
 Show to whom, date, and address of delivery. \$ _____

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
 Mr. Browne Gregg
 P. O. Box 317
 Leesburg, Florida 32748

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	0155799	

 (Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE Addressee Authorized agent

4. DATE OF DELIVERY POSTMARK

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

January 4, 1985

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Browne Gregg
Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32748


Dear Mr. Gregg:

Attached is one copy of the Technical Evaluation and Preliminary Determination, and proposed permits to construct a limestone handling and storage system in Brooksville, Hernando County, Florida. The attachments to the draft permits will be mailed under separate cover.

Before final action can be taken on your draft permits, you are required by Florida Administrative Code Rule 17-103.150 to publish the attached Notice of Proposed Agency Action in the legal advertising section of a newspaper of general circulation in Hernando County no later than fourteen days after receipt of this letter. The department must be provided with proof of publication within seven days of the date the notice is published. Failure to publish the notice may be grounds for denial of the permits.

Please submit, in writing, any comments which you wish to have considered concerning the department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,


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

CHF/pa
Attachments
cc: John Koogler, P.E.
Bill Thomas
Joe McGlothlin

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of an)	
Application for Permits by)	
Florida Crushed Stone Company)	DER File No. AC 27-091426
Post Office Box 317)	AC 27-091427
Leesburg, Florida 32748)	AC 27-091429
)	AC 27-091430
)	AC 27-091432
)	AC 27-091433

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its Intent to Issue, and proposed order of issuance for, permits pursuant to Chapter 403, Florida Statutes, for the proposed project as detailed in the applications 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 Crushed Stone Company, applied on August 9, 1984, to the Department of Environmental Regulation for permits to construct a limestone handling and storage system located at the applicant's existing facility at Cobb Road, two miles northwest of Brooksville, Hernando County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The applicant was officially notified by the Department that air construction permits were required for the proposed work.

This intent to issue shall be placed before the Secretary for final action unless an appropriate petition for a hearing pursuant to the provisions of Section 120.57, Florida Statutes, is filed within fourteen (14) days from receipt of this letter or

publication of the public notice (copy attached) required pursuant to Rule 17-103.150, Florida Administrative Code, whichever occurs first. The petition must comply with the requirements of Section 17-103.155 and Rule 28-5.201, Florida Administrative Code (copy attached) and be filed pursuant to Rule 17-103.155(1) in the Office of General Counsel of the Department of Environmental Regulation at 2600 Blair Stone Road, Tallahassee, Florida 32301.

Petitions which are not filed in accordance with the above provisions are subject to dismissal by the Department. In the event a formal hearing is conducted pursuant to Section 120.57(1), all parties shall have opportunity to respond, to present evidence and argument on all issues involved, to conduct cross-examination of witness and submit rebuttal evidence, to submit proposed findings of facts and orders, to file exception to any order or hearing officer's recommended order, and to be represented by counsel. If an informal hearing is requested, the agency, in accordance with its rules of procedure, will provide affected persons or parties or their counsel an opportunity, at a convenient time and place, to present to the agency or hearing officer, written or oral evidence in opposition to the agency's action or refusal to act, or a written statement challenging the grounds upon which the agency has chosen to justify its action or inaction, pursuant to Section 120.57(2), Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition, may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of

Administrative Hearings, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

Executed the 4 day of JANUARY, 1985, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



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

Copies furnished to:

Browne Gregg, Florida Crushed Stone Company
Bill Thomas, DER Southwest District
John B. Koogler, P.E., Sholtes and Koogler Environmental
Consultants
Joe McGlothlin, Lawson, McWhirter, Grandoff & Reeves

State of Florida
Department of Environmental Regulation
Notice of Proposed Agency Action
on Permit Applications

The Department of Environmental Regulation gives notice of its intent to issue permits to Florida Crushed Stone Company to construct a limestone handling and storage system at the applicant's existing facility on Cobb Road, two miles northwest of Brooksville, Hernando County, Florida. A determination of best available control technology (BACT) was not required.

Persons 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 conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing 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.

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

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

Dept. of Environmental Regulation
Southwest District
7601 Highway 301 North
Tampa, Florida 33610

Dept. of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the department's final determination.

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

28-5.15 Requests for Formal and Informal Proceedings

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

Technical Evaluation
and
Preliminary Determination

Florida Crushed Stone Company
Hernando County
Brooksville, Florida

Permit Numbers:

AC27-091426
AC27-091427
AC27-091429
AC27-091430
AC27-091432
AC27-091433

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

I. Applicant and Source Location

A. Applicant
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

B. Project and Location

The applicant proposes to construct a limestone handling and storage facility that will be used to support the operation of a proposed fluid-bed lime plant. The lime plant will be permitted under Power Plant Siting. The proposed sources will be located within the applicant's facility on Cobb Road, Hernando County, Brooksville, Florida. The universal transverse mercator (UTM) coordinates of the sources are Zone 17, 360.1 km East and 3162.4 km North.

C. Process and Controls

The six sources of particulate matter emissions proposed by the applicant result from the handling and storage of limestone for the proposed fluid-bed lime plant. Emissions from these sources will all be controlled by their own baghouse filter. The sources and permit numbers are as follows:

AC27-091426	LIMESTONE SCREENING BAGHOUSE
AC27-091427	LIMESTONE STORAGE BIN
AC27-091429	LIMESTONE STORAGE BIN
AC27-091430	LIME STORAGE SILO B
AC27-091432	LIME SILO DISCHARGE & BAGHOUSE
AC27-091433	LIME STORAGE SILO A

II. Rule Applicability

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and FAC Rule 17-2, because it constitutes construction at a major facility as defined in FAC Rule 17-2.100(98).

The proposed project is located in an area designated as attainment for all criteria pollutants.

The proposed project is not subject to the requirements of FAC Rule 17-2.500, Prevention of Significant Deterioration, because the total emission increase is below the significant net emission increase of 25 tons per year, Table 500-2, as the applicant has elected to be subject to a more stringent emission limit of 0.015 grains per actual cubic foot.

The proposed project is subject to the requirements of FAC Rule 17-2.610, General Particulate Emission Limiting Standards.

III. Summary of Emissions and Air Quality Analysis

A. Emission Limitations

The pollutant emitted by the six proposed sources is particulate matter. Based on the emission limit of 0.015 grains per actual cubic foot exhausted from each baghouse, the emissions from the six proposed sources are summarized in the following table:

	Exhaust Flow (ACFM)	Emissions	
		(lb/hr)	(ton/yr)
Limestone Screening Baghouse	6,000	0.77	3.04
Limestone Storage Bin	6,000	0.77	3.04
Limestone Storage Bin	9,000	1.16	4.56
Lime Storage Silo B Lime Silo	5,000	0.64	2.53
Discharge & Baghouse	5,000	0.64	2.53
Lime Storage Silo A	5,000	0.64	2.53

B. Air Quality Analysis

Ambient monitoring or modeling is not required to provide reasonable assurance that the ambient air standards will not be violated.

IV. CONCLUSION

The emission limits that will be imposed have been determined to be in compliance with all applicable requirements of FAC Rule 17-2. The permitted maximum allowable emission limits should not cause any violation of Florida's ambient air quality standards.

The general and specific conditions listed in the proposed construction permits (attached) will assure compliance with all applicable requirements of FAC Rule 17-2.

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091426
Expiration Date: March 31, 1987
County: Hernando
Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W
Project: Limestone Screening baghouse

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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a limestone screening baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091426
Expiration Date: March 31, 1987

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 Crushed Stone Company Permit Number: AC27-091426 Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091426
Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091426
Expiration Date: March 31, 1987

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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 0.77 pounds per hour or 3.04 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091426
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)(d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this _____ day of _____,
19__.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

_____ pages attached.

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091427
Expiration Date: March 31, 1987
County: Hernando
Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W
Project: Limestone 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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a limestone storage bin and baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091427
Expiration Date: March 31, 1987

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 Crushed Stone Company

Permit Number: AC27-091427

Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091427
Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091427
Expiration Date: March 31, 1987

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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 0.77 pounds per hour or 3.04 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091427
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)9d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this _____ day of _____,
19__.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

_____ pages attached.

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091429
Expiration Date: March 31, 1987
County: Hernando
Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W
Project: Limestone 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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a limestone storage bin and baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:

Florida Crushed Stone Company

Permit Number: AC27-091429

Expiration Date: March 31, 1987

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: Permit Number: AC27-091429
Florida Crushed Stone Company Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091429
Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091429
Expiration Date: March 31, 1987

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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 1.16 pounds per hour or 4.56 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091429
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)(d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this _____ day of _____,
19____.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

_____ pages attached.

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091430
Expiration Date: March 31, 1987
County: Hernando
Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W
Project: Limestone Storage Silo B

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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a lime storage silo and baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:

Florida Crushed Stone Company

Permit Number: AC27-091430

Expiration Date: March 31, 1987

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 Crushed Stone Company Permit Number: AC27-091430 Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091430
Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091430
Expiration Date: March 31, 1987

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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 0.64 pounds per hour or 2.53 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091430
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)(d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this _____ day of _____,
19____.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

_____ pages attached.

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:

Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091432

Expiration Date: March 31, 1987

County: Hernando

Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W

Project: Lime silo discharge and
baghouse

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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a lime silo discharge and baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091432
Expiration Date: March 31, 1987

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 Crushed Stone Company

Permit Number: AC27-091432

Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091432
Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091432
Expiration Date: March 31, 1987

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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 0.64 pounds per hour or 2.53 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091432
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)(d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this _____ day of _____,
19__.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

_____ pages attached.

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Company
P.O. Box 317
Leesburg, Florida 32748

Permit Number: AC27-091433
Expiration Date: March 31, 1987
County: Hernando
Latitude/Longitude: 28° 34' 57" N/
82° 25' 50" W
Project: Lime storage silo A

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 show on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a lime storage silo and baghouse filter.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1).
2. J.B. Koogler's letter, dated August 8, 1984.
3. C.H. Fancy's letter, dated August 29, 1984.
4. J.B. Koogler's letter, dated September 12, 1984.
5. J.B. Koogler's letter, dated October 2, 1984.
6. C.H. Fancy's letter, dated October 11, 1984.
7. J.B. Koogler's letter, dated October 25, 1984.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091433
Expiration Date: March 31, 1987

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 Crushed Stone Company

Permit Number: AC27-091433

Expiration Date: March 31, 1987

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091433
Expiration Date: March 31, 1987

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.

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

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- 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 Crushed Stone Company

Permit Number: AC27-091433
Expiration Date: March 31, 1987

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.
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 - 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 hours of operations shall not exceed 7,884 hours per year.
2. Particulate matter emissions shall not exceed 0.64 pounds per hour or 2.53 tons per year (0.015 grains per actual cubic foot). An initial compliance test using EPA Method 5 shall be submitted to DER's Southwest District office within 45 days after completion of the tests.
3. There shall be no visible emissions (five percent opacity).
4. Compliance with the visible emission standards shall be demonstrated in accordance with DER Method 9, FAC Rule 17-2.700(6)(2)9.

PERMITTEE:
Florida Crushed Stone Company

Permit Number: AC27-091433
Expiration Date: March 31, 1987

SPECIFIC CONDITIONS:

5. Compliance tests shall be run at 90-100% rated capacity.
6. Sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, FAC, and 40 CFR 60, Appendix A.
7. If the source meets Specific Condition No. 2, subsequent compliance tests may be done by EPA Method 9 in accordance with Rule 17-2.700(1)(d)6, FAC.
8. Fifteen (15) days notification of the compliance tests to DER's Southwest District office Air Program is required.
9. After satisfactory completion of the initial compliance test and prior to ninety (90) days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Southwest District office. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date or the issuance of an operating permit. The department may extend the expiration date of this permit as authorized by Rule 17-2.210(1), FAC.

Issued this _____ day of _____,
19____.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

_____ pages attached.



SHOLTES & KOOGLER, ENVIRONMENTAL CONSULTANTS
1213 N.W. 6th Street Gainesville, Florida 32601 (904) 377-5822

SKEC 307-84-02

October 25, 1984

Mr. C. H. Fancy, Deputy Chief
Bureau of Air Quality Management
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

DER

OCT 26 1984

BAQM

Subject: Florida Crushed Stone Company
Brooksville, Florida
Modification to Proposed Cement Plant/Power Plant

Dear Mr. Fancy:

In response to your letter of October 11, 1984, regarding the sulfur dioxide adsorption efficiency in the fluid-bed lime calciner that will be constructed by Florida Crushed Stone and as a result of more refined data provided to Florida Crushed Stone Company by their design engineers, information is provided herein that will modify the sulfur dioxide emission data for the proposed Florida Crushed Stone facility as reported in my letter to Mr. Hamilton Oven dated August 8, 1984.

The submission of the modified sulfur dioxide emission data by Florida Crushed Stone, does not infer agreement with the 95 percent sulfur dioxide adsorption rate assumed by the Department for the fluid-bed lime calciner. The modifications, as they relate to sulfur dioxide adsorption in a lime kiln, are being submitted as a matter of expediency since sulfur dioxide adsorption data, in addition to that which we have already provided to the Department, are not readily available to us. I would also like to state, that I would be quite interested in seeing the substantive data that the Department has available that would support a sulfur dioxide adsorption rate of only 95 percent in the fluid-bed lime calciner.

In addition to the modifications in sulfur dioxide emission rates resulting from the change in sulfur dioxide adsorption efficiency in the fluid-bed lime calciner, modifications are also being made to reflect the following design criteria which have recently been established by design engineers for Florida Crushed Stone:

1. Babcock & Wilcox (B&W) will guarantee to Florida Crushed Stone that the sulfur dioxide leaving the economizer of the power boiler will not exceed 770 pounds per hour when the power plant alone is operating and when the power plant and fluid-bed lime calciner are operating. This guarantee is made for operating rates up to, and including, a generation rate of 125 MW, electric, for the power plant and a lime production rate of 50 tons per hour for the fluid-bed calciner.
2. The sulfur dioxide adsorption in the 140 ton per hour fluid-bed limestone dryer will be 15 percent. (Previously, it was assumed that sulfur dioxide adsorption in the fluid-bed limestone dryer would be 35 percent.)
3. The sulfur dioxide adsorption rate in the baghouse when the cement plant is operating will be five percent. (Previously no credit was taken for sulfur dioxide adsorption in the baghouse.)
4. The fraction of the gases from the power plant and lime plant that pass through the fluid-bed limestone dryer and the fraction that by-passes the fluid-bed limestone dryer are defined by the air flow rates presented for gas streams 33 and 3 in my letter to Mr. Owen dated August 8, 1984.

The modifications stated herein effect only the sulfur dioxide emission rates. The modifications in no way effect the coal firing rates to either the power boiler or the lime calciner, the operation of the cement plant, the hours of operation of any facility, the rate at which any air pollutant is generated or the controlled emission rate of any air pollutant except sulfur dioxide.

The calculations which support the modified sulfur dioxide emission rates are presented for each potential operating scenario on the attached sheets. The operating scenarios are designated Case 1 through Case 9 and are defined in Table 1.

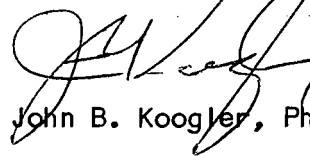
Table 1 also summarizes the hourly sulfur dioxide emission rates for each operating scenario as proposed in our letter of August 8th and as modified. In reviewing this table it will be noted that the hourly sulfur dioxide emission rate increases under some sets of operating conditions while it decreases under other sets of operating conditions. Of most significant importance is the fact that the maximum sulfur dioxide emission rate proposed in our August 8, 1984 letter of 800 pounds per hour decreases to 781 pounds per hour under

the modified conditions. The 781 pounds per hour sulfur dioxide emission rate, resulting with the power plant, lime plant and cement plant operating and with the power plant and cement plant only operating, will be the maximum sulfur dioxide emission rate from the proposed facility. This will further reduce the impacts on air quality in the Class I PSD area as reported in Table 6 or our August 8, 1984 letter, providing additional PSD increment for future development in the West Central Florida area.

If there are any questions regarding the enclosed data, please do not hesitate to contact me.

Very truly yours,

SHOLTES & KOOGLER,
ENVIRONMENTAL CONSULTANTS



John B. Koogler, Ph.D., P.E.

JBK:ssc

Enclosures

cc: Mr. Hamilton S. Owen
Mr. Richard C. Entorf
Mr. Larry Curtin

TABLE 1

SULFUR DIOXIDE EMISSION RATES FOR
VARIOUS OPERATING CONDITIONS

FLORIDA CRUSHED STONE COMPANY
BROOKSVILLE, FLORIDA

Case	Operating Units ⁽¹⁾	Sulfur Dioxide (lb/hr)	
		Modified	Proposed 8/8/84
1	Power	770	750
2	Power/lime	770	750
3	Power/lime/cement	781	800
4	Power/lime/cement/dryer	691	650
5	Power/lime/dryer	681	600
6	Power/cement/dryer	705	770
7	Power/cement	781	800
8	Power/dryer	683	720
9	Cement	50	50

- (1) Power - Power plant @ 125 MW electric
 Lime - Fluid-bed lime calciner @ 50 tph lime
 Dryer - Fluid-bed limestone dryer @ 140 tph
 Cement - Cement plant @ 75 tph clinker.

Case 1 - Power Plant at 125 MW

Power Plant

Coal firing rate - 50.0 tph @ 0.75% sulfur

$$\begin{aligned} \text{SO}_2 &= 50.0 \text{ tph} \times 39(0.75) \text{ lb SO}_2/\text{ton}^* \\ &= 1,462.5 \text{ lb/hr generated.} \end{aligned}$$

$$\begin{aligned} \text{SO}_2 \text{ adsorption by limestone injection (guaranteed by B\&W)} \\ &= 47.4\% \end{aligned}$$

$$\begin{aligned} \text{SO}_2 \text{ from economizer to baghouse} \\ &= 1,462.5 (1 - 0.474) \\ &= 770 \text{ lb/hr.} \end{aligned}$$

To Stack

Baghouse will adsorb 0% of the SO₂ when the cement plant is not operating

$$\begin{aligned} \text{SO}_2 &= 770 (1 - 0) \\ &= 770 \text{ lb/hr to the stack.} \end{aligned}$$

* AP-42, Supplement 13 emission factor.

Case 2 - Power Plant at 125 MW and Lime Plant at 50 tph

Lime Plant

Coal firing rate - 19.89 tph @ 0.75% sulfur

$$\begin{aligned} \text{SO}_2 &= 19.89 \times 39 (0.75) \text{ lb SO}_2/\text{ton} \\ &= 581.8 \text{ lb/hr from coal.} \end{aligned}$$

Limestone feed rate - 103.44 tph @ 0.04% sulfur

$$\begin{aligned} \text{SO}_2 &= 103.44 \text{ tph} \times 2000 \text{ lb/ton} \times (0.0004 \times 2) \text{ lb SO}_2/\text{lb.} \\ &= 165.5 \text{ lb/hr from limestone.} \end{aligned}$$

$$\begin{aligned} \text{Total SO}_2 \text{ to Lime Plant} \\ &= 747.3 \text{ lb/hr.} \end{aligned}$$

SO₂ adsorption by fluid-bed = 95%*

$$\begin{aligned} \text{SO}_2 \text{ to Power Plant} \\ &= 747.3 (1 - 0.95) \\ &= 37.4 \text{ lb/hr.} \end{aligned}$$

Power Plant

Coal firing rate - 42.13 tph @ 0.75% sulfur

$$\begin{aligned} \text{SO}_2 &= 42.13 \times 39(0.75) \text{ lb SO}_2/\text{ton} \\ &= 1,232.3 \text{ lb/hr from coal.} \end{aligned}$$

$$\begin{aligned} \text{Lime Plant SO}_2 \\ &= 37.4 \text{ lb/hr} \end{aligned}$$

$$\begin{aligned} \text{Total SO}_2 \text{ to Power Plant} \\ &= 1,269.7 \text{ lb/hr.} \end{aligned}$$

SO₂ adsorption by limestone injection (guaranteed by B&W)
= 39.4%.

$$\begin{aligned} \text{SO}_2 \text{ from economizer to baghouse} \\ &= 1,269.7 (1 - 0.394) \\ &= 770 \text{ lb/hr} \end{aligned}$$

To Stack

Baghouse will absorb 0% of the SO₂ when the cement plant is not operating

$$\begin{aligned} \text{SO}_2 &= 770 (1 - 0) \\ &= 770 \text{ lb/hr to the stack} \end{aligned}$$

* See FDER letter dated October 11, 1984

Case 3 - Power Plant/Lime Plant/Cement Plant @ 75 tph clinker

Lime Plant/Power Plant

$$\begin{aligned} \text{SO}_2 \text{ from economizer to baghouse} \\ = 770 \text{ lb/hr (from Case 2)} \end{aligned}$$

Cement Plant

$$\text{SO}_2 = 52.6 \text{ lb/hr to the baghouse}$$

To Stack

Baghouse will adsorb 5% of the SO_2 with the cement plant operating.

$$\begin{aligned} \text{SO}_2 &= (770 + 52.6)(1 - 0.05) \\ &= 781 \text{ lb/hr* to the stack.} \end{aligned}$$

* Includes 50.0 lb SO_2 /hour from the cement plant as presently permitted.

Case 4 - Power Plant/Lime Plant/Cement Plant/Dryer

Lime Plant/Power Plant

$$\begin{aligned} \text{SO}_2 \text{ from economizer to baghouse} \\ = 770 \text{ lb/hr (from Case 2)} \end{aligned}$$

Dryer

82.9% of the gases from economizer pass through the fluid-bed rock dryer where 15% of the SO_2 is adsorbed and then to the baghouse.

17.1% of the gases from economizer by-pass the dryer and go directly to the baghouse.

$$\begin{aligned} \text{SO}_2 &= 770 (0.171)(1) + 770 (0.829)(1 - 0.15) \\ &= 674.3 \text{ lb/hr to baghouse.} \end{aligned}$$

Cement Plant

$$\text{SO}_2 = 52.6 \text{ lb/hr to the baghouse.}$$

To Stack

Baghouse will adsorb 5% of SO_2 with the cement plant operating.

$$\begin{aligned} \text{SO}_2 &= (674.3 + 52.6)(1 - 0.05) \\ &= 691 \text{ lb/hr* to the stack} \end{aligned}$$

* Includes 50.0 lb SO_2 /hr from the cement plant as presently permitted.

Case 5 - Power Plant/Lime Plant/Dryer

Lime Plant/Power Plant

SO_2 from the economizer to the baghouse
= 770 lb/hr (from Case 2).

Dryer

77.1% of the gases from economizer pass through the fluid-bed rock dryer where 15% of the SO_2 is adsorbed.

22.9% of the bases from the economizer by-pass the dryer and to directly to the baghouse.

SO_2 = $770 (0.229)(1) + 770 (0.771)(1 - 0.15)$
= 681.0 lb/hr to baghouse.

To Stack

Baghouse will adsorb 0% of SO_2 when the cement plant is not operating.

SO_2 = $(681.0)(1 - 0)$
= 681 lb/hr to the stack

Case 6 - Power Plant/Cement Plant/Dryer

Power Plant

$$\begin{aligned} \text{SO}_2 \text{ from economizer to dryer} \\ = 770 \text{ lb/hr (from Case 1)} \end{aligned}$$

Dryer

69.8% of the gases from the economizer pass through the fluid-bed rock dryer where 15% of the SO_2 is adsorbed.

30.2% of the gases from the economizer by-pass the dryer and go directly to the baghouse.

$$\begin{aligned} \text{SO}_2 &= 770(0.302)(1) + 770(0.698)(1 - 0.15) \\ &= 689.4 \text{ lb/hr to the baghouse.} \end{aligned}$$

Cement Plant

$$\text{SO}_2 = 52.6 \text{ lb/hr to the baghouse.}$$

To Stack

Baghouse will adsorb 5% of the SO_2

$$\begin{aligned} \text{SO}_2 &= (689.4 + 52.6)(1 - 0.05) \\ &= 705 \text{ lb/hr to the stack.} \end{aligned}$$

Case 7 - Power Plant/Cement Plant

Power Plant

$$\begin{aligned} \text{SO}_2 \text{ from the economizer to the baghouse} \\ = 770 \text{ lb/hr (from Case 1)} \end{aligned}$$

Cement Plant

$$\text{SO}_2 = 52.6 \text{ lb/hr to the baghouse.}$$

To Stack

Baghouse will adsorb 5% of the SO_2 when the cement plant is operating.

$$\begin{aligned} \text{SO}_2 &= (770 + 52.6)(1 - 0.05) \\ &= 781 \text{ lb/hr* to the stack.} \end{aligned}$$

* Includes 50.0 lb SO_2 /hr from the cement plant as permitted.

Case 8 - Power Plant/Dryer

Power Plant

SO_2 from economizer to the dryer
= 770 lb/hr (from Case 1).

Dryer

75.0% of the gases from the economizer pass through the fluid-bed rock dryer where 15% of the SO_2 is adsorbed.

25.0% of the gases from the economizer by-pass the dryer and go directly to the baghouse.

SO_2 = $770(0.25)(1) + 770(0.75)(1 - 0.5)$
= 683 lb/hr.

To Stack

Baghouse will adsorb 0% of the SO_2 when the cement plant is not operating.

SO_2 = $683(1 - 0)$
= 683 lb/hr.

Case 9 - Cement Plant

Cement Plant

$SO_2 = 52.6$ lb/hr to baghouse.

To Stack

Baghouse will adsorb 5% of the SO_2 when the cement plant is operating.

$SO_2 = 52.6(1 - 0.05)$
 $= 50.0$ lb/hr to the stack as permitted.

P 408 530 301

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Mr. Browne Gregg	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 10/11/84	

PS Form 3800, Feb. 1982

PS Form 3811, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
 Show to whom and date delivered.....¢
 Show to whom, date and address of delivery.....¢
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2. ARTICLE ADDRESSED TO:
 Mr. Browne Gregg
 P. O. Box 317
 Leesburg, Florida 32748

3. ARTICLE DESCRIPTION:
 REGISTERED NO. CERTIFIED NO. INSURED NO.
 P408530301

(Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE Addressee Authorized agent

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GPO : 1979-300-459

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

October 11, 1984

Mr. Browne Gregg, Chairman and CEO
Florida Crushed Stone Company
Post Office Box 317
Leesburg, Florida 32748

Dear Mr. Gregg:

RE: Modification to Proposed Cement Plant/Power
Plant

The Bureau of Air Quality Management received the responses from Dr. Koogler on September 13 and October 4, 1984. After reviewing his responses, we felt that the assumptions he had made on sulfur dioxide absorption in the kiln were not acceptable. Based on the study on the subject, our conclusion is that 95 percent sulfur dioxide will be acceptable. Send us revised emission calculations using 95 percent absorption rate; or send detailed, supportable information on any higher efficiencies that you can prove.

When we receive your response, we will resume processing your applications. If your staff has any questions, please call Bob King at (904) 488-1344, or write to me at the above address.

Sincerely,

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

CHF/BK/agh

cc: S.W. District
John Koogler
Buck Oven



SHOLTES & KOOGLER, ENVIRONMENTAL CONSULTANTS

1213 N.W. 6th Street Gainesville, Florida 32601 (904) 377-5822

SKEC 307-84-02

October 2, 1984

DER
OCT 2 1984
BAQM

Mr. C. H. Fancy
Deputy Bureau Chief
Bureau of Air Quality Management
Florida Department of
Environmental Regulation
Northwest District Branch Office
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Subject: Florida Crushed Stone Company
Brooksville, Florida
Modifications to Cement Plant/Power Plant/Lime Plant
Construction Permits

Dear Mr. Fancy:

On September 12, 1984, I provided your office with a response to a Department letter dated August 29, 1984, requesting additional information on sulfur dioxide absorption efficiencies stated in the Permit Applications for the modifications to the Florida Crushed Stone cement plant/power plant/lime plant complex. Specifically, it was stated that there would be 100 percent absorption of the sulfur dioxide generated in the fluid-bed lime plant and 35 percent absorption of the sulfur dioxide in the gas stream passing through the fluid-bed limestone dryer.

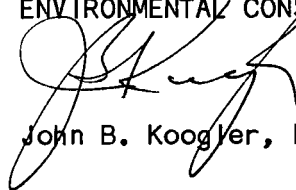
In reflecting on my response and the original information provided on behalf of Florida Crushed Stone, I recognize that the claim of 100 percent sulfur dioxide absorption in the fluid-bed lime plant is technically incorrect and could possibly be a concern to somebody reviewing the permit application. To clarify this matter I would like to state that our position is that "virtually all of the sulfur dioxide generated in the fluid-bed lime kiln will be absorbed". This claim is substantiated in more quantitative terms by the attached letter recently received from Babcock & Wilcox; the company designing the fluid-bed lime plant and power plant package for Florida Crushed Stone.

The information provided to you in my letter of September 12, 1984, regarding sulfur dioxide absorption in the fluid-bed limestone dryer, should require no clarification or additional comment.

If there are any questions or if further comment is required on this matter, please feel free to contact me.

Very truly yours,

SHOLTES & KOOGLER,
ENVIRONMENTAL CONSULTANTS



John B. Koogler, Ph.D., P.E.

JBK:ssc
Attachment

cc: Mr. Larry Walker
Mr. R. C. Entorf
Mr. Larry Curtin
Mr. Bill Thomas

REC'D SEP 17 1984

Babcock & Wilcox

Advanced Energy &
Environmental Systems Division

a McDermott company

20 S. Van Buren Avenue
P.O. Box 351
Barberton, OH 44203
(216) 753-4511

September 12, 1984

Mr. L. Walker
Vice President
Florida Crushed Stone Company
1616 S. 14th Street
P.O. Box 317
Leesburgh, FL 32748

Dear Mr. Walker:

The following information deals with B&W's involvement in fluid bed technology and the application of this technology in predicting the 99%+ sulfur removal in the Florida Crushed Stone Calciner design.

The fluidized bed process is a method of burning coal in an environmentally acceptable manner. Coal combustion occurs in a bed of limestone which is suspended by an upward stream of air. The air flow turns the bed of coal and limestone into a turbulent mixture which resembles a bubbling liquid, hence the name fluidized bed.

The major design characteristic of a fluidized bed is removal of sulfur from the coal. Sulfur dioxide, an undesirable by-product of coal combustion, reacts with limestone during combustion to produce calcium sulfate, a solid material which is removed from the bed for disposal.

B&W's involvement with fluidized bed technology began in the early 1970's with the design and construction of two small scale fluidized bed units. These units were constructed at B&W's Research Center in Alliance, Ohio.

The evolution continued with the design and construction of a 6'x6' unit again at B&W's Research Center (6'x6' reference bed dimensions). This unit was designed to help bridge the gap between small scale test units and larger commercialized units.

In mid-1982, B&W designed and constructed a 20 MW fluidized bed boiler pilot plant in Paducah, Kentucky. This boiler incorporated all of B&W's technology gained from its earlier research programs.

The Florida Crushed Stone calciner design is based on extensive test data from all of B&W's test facilities. The major concern of this calciner design is the presence of SO₂ in the flue gas leaving the

calciner. Testing at both B&W's Alliance Research Center and the 20 MW pilot plant has shown a 90% sulfur removal with a 3:1 calcium to sulfur molar ratio. The Florida Crushed Stone Calciner operates at a calcium to sulfur ratio of 200:1. Based on B&W's experience, at this high calcium to sulfur molar ratio a 99%+ sulfur removal is predicted.

In conclusion, no test facility exists that perfectly models the Florida Crushed Stone calciner design. Based on B&W's extensive experience in fluidized bed technology and at this extremely high calcium to sulfur molar ratio, 99%+ sulfur removal is predicted from the calciner. The 99%+ sulfur removal is a predicted value and should not be considered a Guaranteed value. B&W has guaranteed the SO₂ emissions at the boiler economizer outlet.

Yours very truly,


R. F. Johns

DNS012/jmg

CC: W. F. Gohara
D. N. Strong
J. E. Scheatzle - IPGD
M. E. Murphy - IPGD



SHOLTES & KOOGLER, ENVIRONMENTAL CONSULTANTS
1213 N.W. 6th Street Gainesville, Florida 32601 (904) 377-5822

SKEC 307-84-02

September 12, 1984

Mr. C. H. Fancy, Deputy Bureau Chief
Bureau of Air Quality Management
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

DER
SEP 13 1984
BAQM

Subject: Modification to Proposed Florida Crushed Stone
Cement Plant/Power Plant

Dear Mr. Fancy:

In response to your letter of August 29, 1984, we are submitting the following information to complete the permit application for the revisions to the proposed Florida Crushed Stone cement plant/power plant. The responses use the same system of enumeration as used in your letter of August 29, 1984.

1. The permit application fees of \$1,600.00 for the lime plant permit application and the permit applications for the six material handling sources was forwarded to your office by Florida Crushed Stone Company on September 7, 1984.
2. In establishing a sulfur dioxide emission limit for the cement plant/power plant/lime plant complex, Florida Crushed Stone presented the assumption that all of the sulfur dioxide generated by the combustion of low sulfur coal in the fluid-bed lime plant will be absorbed. This assumption was based primarily upon design criteria provided to Florida Crushed Stone by Babcock & Wilcox (B&W); the company designing the lime kiln/power plant portion of the Florida Crushed Stone facility.

The design criteria provided by B&W can be substantiated by extrapolating information provided in Section 8.15 of the EPA document, Compilation of Air Pollutant Emission Factors, (Publication AP-42). A copy of this section, as it appeared in Supplement 7 to AP-42 is attached hereto.

Other information that can be extrapolated to support the 100 percent sulfur dioxide absorption assumption is sulfur dioxide absorption data for fluid-bed phosphate rock dryers provided to the Department in PSD Application PSD-FL-088. Copies of these data are also attached hereto.

In Section 8.15 of AP-42, entitled Lime Manufacturing, basic information and some of the characteristics of the various types of lime kilns are presented. In describing the characteristics of the kilns it is stated, "Fluidized-bed kilns have the highest uncontrolled particulate emissions. This is due primarily to the very small feed size..." (Emphasis added). Regarding the rotary kiln, it is stated that "The rotary kiln is second to the fluidized-bed kiln in uncontrolled particulate emissions. This is attributed to the small feed size..." (Emphasis added). Further in Section 8.15, and with reference to the rotary lime kiln, it is stated (Table 8.15-1) that "When low sulfur (less than one percent, by weight) fuels are used, only about 10 percent of the fuel sulfur is emitted as SO_2 ."

Considering the fact that Florida Crushed Stone will be burning low sulfur fuel (0.75 percent sulfur) in the fluid-bed lime kiln; considering the fact there is a much more intimate contact between the gas stream and lime particles in a fluid-bed kiln than in a rotary kiln; and considering the fact that the lime particles in a fluid-bed kiln are smaller than those in a rotary kiln, it is entirely reasonable to expect that there will be a 100 percent sulfur dioxide absorption in a fluid-bed lime kiln.

The sulfur dioxide absorption data for fluid-bed rock dryers that has been presented to FDER demonstrates that when phosphate rock with a small particle size is dried in a fluid-bed dryer fired with fuel with a 1.0 percent sulfur content, the sulfur dioxide absorption efficiency is in the range of 96 percent. Extrapolating these data to a fluid-bed lime calciner producing a fine particle sized lime, (which is more reactive than phosphate rock), while burning fuel with a 0.75 percent sulfur content, it is again reasonable to expect that there will be 100 percent sulfur dioxide absorption.

3. Information provided in response to Item No. 2 can likewise be used to support the 35 percent absorption efficiency for sulfur dioxide in the fluid-bed limestone dryer. Data presented with PSD-FL-088, and attached hereto, demonstrate that when fuel with a low sulfur content is burned in a fluid-bed phosphate rock dryer, sulfur dioxide absorption efficiencies between 65 and 95+ percent can be achieved. In the case of Florida Crushed Stone, a gas stream with a relatively low sulfur dioxide concentration (equivalent to burning low sulfur fuel) will pass through a fluid-bed limestone dryer. Considering the fact that limestone is more reactive than phosphate rock and the fact that the gas stream will contain a low sulfur dioxide concentration, it is reasonable to expect that the sulfur dioxide absorption in the Florida Crushed Stone fluid-bed limestone dryer will be at least 35 percent.

4. The sulfur dioxide emission rates from the cement plant/power plant/limestone complex were calculated based on the following assumptions:
 - A. 100 percent absorption of sulfur dioxide in the fluid-bed lime kiln.
 - B. 30 percent sulfur dioxide absorption in the power boiler by lime or limestone injection.
 - C. 35 percent sulfur dioxide absorption in the fluid-bed limestone dryer.
 - D. 50 pounds per hour sulfur dioxide emission rate from the cement plant.

The sulfur dioxide absorption rate for which the least amount of data presently exists, and hence the sulfur dioxide absorption rate with the greatest safety factor, is that associated with absorption in the power boiler. For design purposes, Florida Crushed Stone, has assumed a 30 percent sulfur dioxide absorption due to lime or limestone injection in the power boiler. Under actual operating conditions, Florida Crushed Stone expects a significantly greater sulfur dioxide absorption rate.

As a result of the anticipated greater sulfur dioxide absorption rate in the power boiler, Florida Crushed Stone has set a limiting sulfur dioxide emission rate from the power plant/lime kiln of 750 pounds per hour. If, for

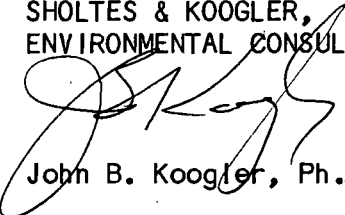
some reason, this emission rate cannot be met through sulfur dioxide absorption, Florida Crushed Stone will reduce the fuel firing rate to the power plant, and hence the power output from the power plant, to the level necessary to reach a sulfur dioxide emission rate of 750 pounds per hour.

The most severe operating conditions, as far as sulfur dioxide emission rates are concerned, will occur with the power plant operating or with the power plant and lime plant operating. Under these most severe conditions, if the power production of the power plant is reduced to 100 megawatts, and sulfur dioxide absorption rates were as stated in the above paragraph, the 750 pounds per hour sulfur dioxide emission rate can be achieved. This reduction in power generating capacity is no different than the presently permitted reduction in power generating capacity when the power plant only is operating.

We trust that the information provided herein will complete the applications for the revisions to the cement plant/power plant facility requested by Florida Crushed Stone. If there are any questions regarding this information, or if additional information is required, please feel free to contact us.

Very truly yours,

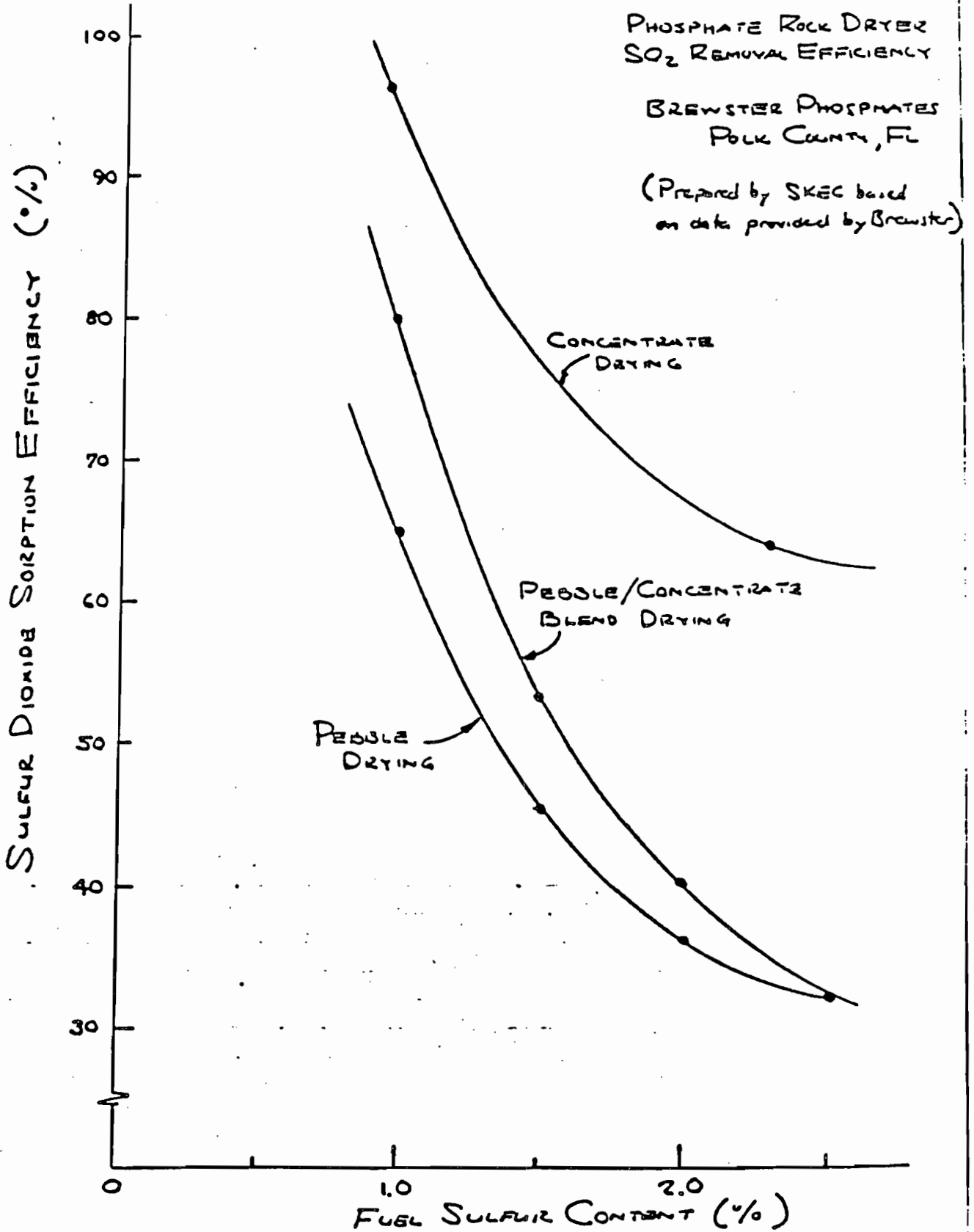
SHOLTES & KOOGLER,
ENVIRONMENTAL CONSULTANTS



John B. Koogler, Ph.D., P.E.

JBK:ssc
Enclosures

cc: Mr. Dick Entorf (with attachments)
Mr. Larry Curtin (with attachments)



U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-270 281

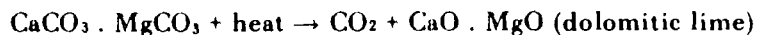
Compilation of Air Pollutant Emission Factors Supplement Number 7

Environmental Protection Agency, Research Triangle Park, N. C.

Apr 77

8.15.1 General¹⁻⁴

Lime is the high-temperature product of the calcination of limestone. There are two kinds of lime: high-calcium lime (CaO) and dolomitic lime (CaO · MgO). Lime is manufactured in various kinds of kilns by one of the following reactions:



In some lime plants, the resulting lime is reacted (slaked) with water to form hydrated lime.

The basic processes in the production of lime are (1) quarrying the raw limestone, (2) preparing the limestone for the kilns by crushing and sizing, (3) calcining the limestone, (4) processing the quicklime further by hydrating, and (5) miscellaneous transfer, storage, and handling operations. A generalized material flow diagram for a lime manufacturing plant is given in Figure 8.15-1. Note that some of the operations shown may not be performed in all plants.

The heart of a lime plant is the kiln. The most prevalent type of kiln is the rotary kiln, accounting for about 90 percent of all lime production in the United States. This kiln is a long, cylindrical, slightly inclined, refractory-lined furnace through which the limestone and hot combustion gases pass countercurrently. Coal, oil, and natural gas may all be fired in rotary kilns. Product coolers and kiln-feed preheaters of various types are commonly employed to recover heat from the hot lime product and hot exhaust gases, respectively.

The next most prevalent type of kiln in the United States is the vertical, or shaft, kiln. This kiln can be described as an upright heavy steel cylinder lined with refractory material. The limestone is charged at the top and calcined as it descends slowly to the bottom of the kiln where it is discharged. A primary advantage of vertical kilns over rotary kilns is the higher average fuel efficiency. The primary disadvantages of vertical kilns are their relatively low production rates and the fact that coal cannot be used without degrading the quality of the lime produced. Although still prevalent in Europe, there have been few recent vertical kiln installations in the United States because of the high production requirements of domestic manufacturers.

Other, much less common, kiln types include rotary hearth and fluidized-bed kilns. The rotary hearth kiln, or "calcimatic" kiln, is a circular-shaped kiln with a slowly revolving donut-shaped hearth. In fluidized-bed kilns, finely divided limestone is brought into direct contact with hot combustion air in a turbulent zone, usually above a perforated grate. Dust collection equipment must be installed on fluidized-bed kilns for process economics because of the high lime carryover into the exhaust gases. Both kiln types can achieve high production rates, but neither can operate with coal.

About 10 percent of all lime produced is converted to hydrated (slaked) lime. There are two kinds of hydrators: atmospheric and pressure. Atmospheric hydrators, the most prevalent kind, are used to produce high calcium and normal dolomitic hydrates. Pressure hydrators, on the other hand, are only employed when a completely hydrated dolomitic lime is needed. Atmospheric hydrators operate continuously, whereas pressure hydrators operate in a batch mode. Generally, water sprays or wet scrubbers are employed as an integral part of the hydrating process to prevent product losses. Following hydration, the resulting product may be milled and conveyed to air separators for further drying and for removal of the coarse fractions.

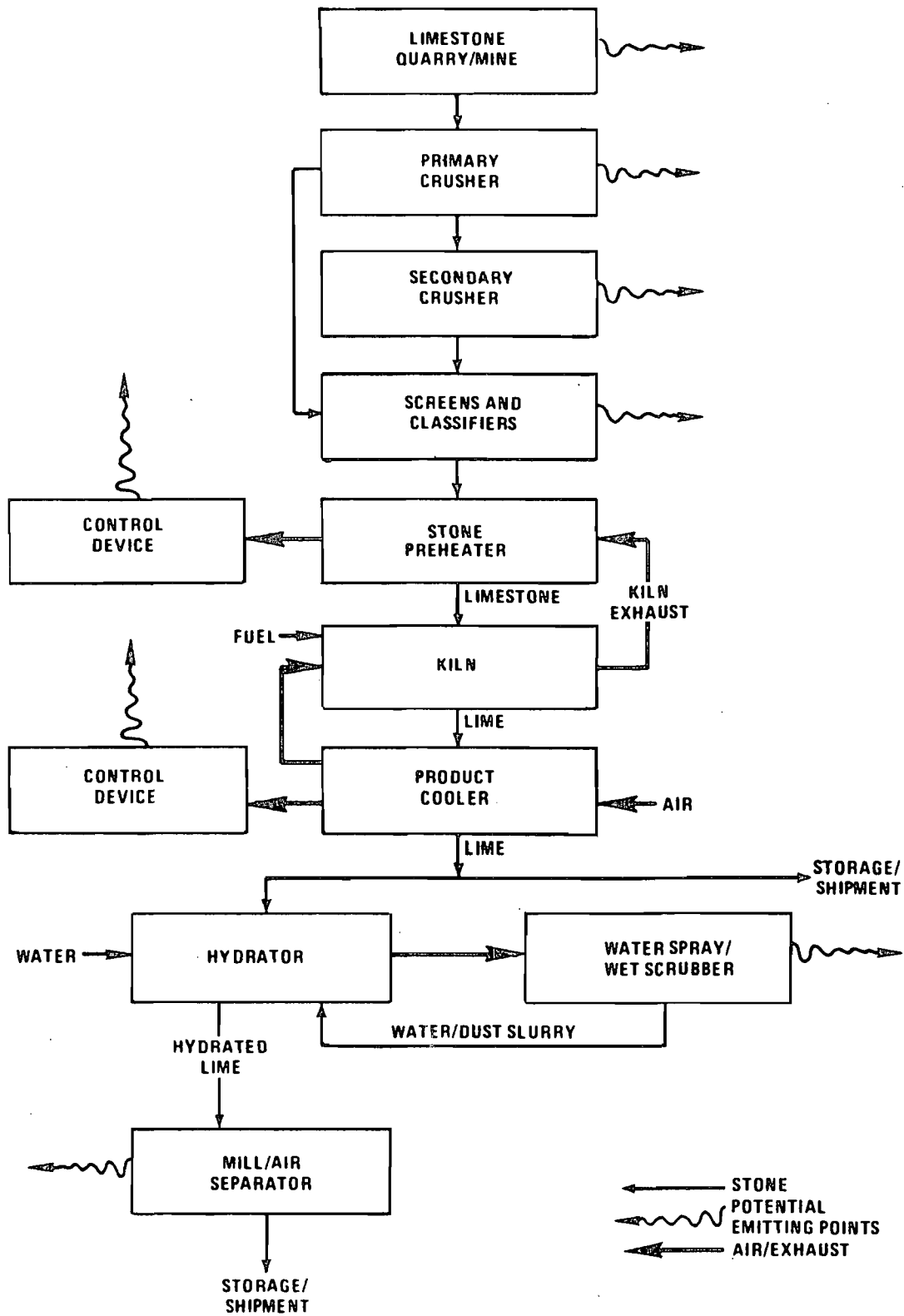


Figure 8.15-1. Generalized lime manufacturing plant.

In the United States, the major use of lime is in chemical and metallurgical applications. Two of the largest uses in these areas are as steel flux and in alkali production. Other lesser uses include construction, refractory, and agricultural applications.

8.15.2 Emissions and Controls³⁻⁵

Potential air pollutant emitting points in lime manufacturing plants are shown in Figure 8.15-1. Particulate is the only pollutant of concern from most of the operations; however, gaseous pollutants are also emitted from kilns.

The largest source of particulate is the kiln. Of the various kiln types in use, fluidized-bed kilns have the highest uncontrolled particulate emissions. This is due primarily to the very small feed size combined with the high air flow through these kilns. Fluidized-bed kilns are well controlled for maximum product recovery. The rotary kiln is second to the fluidized-bed kiln in uncontrolled particulate emissions. This is attributed to the small feed size and relatively high air velocities and dust entrainment caused by the rotating chamber. The rotary hearth, or "calcimatic" kiln ranks third in dust production, primarily because of the larger feed size combined with the fact that the limestone remains in a stationary position relative to the hearth during calcination. The vertical kiln has the lowest uncontrolled dust emissions due to the large lump-size feed and the relatively slow air velocities and slow movement of material through the kiln.

Some sort of particulate control is generally employed on most kilns. Rudimentary fallout chambers and cyclone separators are commonly used for control of the larger particles; fabric and gravel bed filters, wet (commonly venturi) scrubbers, and electrostatic precipitators are employed for secondary control. Table 8.15-1 yields approximate efficiencies of each type of control on the various types of kilns.

Nitrogen oxides, carbon monoxide, and sulfur oxides are all produced in kilns, although the latter are the only gaseous pollutant emitted in significant quantities. Not all of the sulfur in the kiln fuel is emitted as sulfur oxides because some fraction reacts with the materials in the kiln. Some sulfur oxide reduction is also effected by the various equipment used for secondary particulate control. Estimates of the quantities of sulfur oxides emitted from kilns, both before and after controls, are presented in Table 8.15-1.

Hydrator emissions are low because water sprays or wet scrubbers are usually installed for economic reasons to prevent product loss in the exhaust gases. Emissions from pressure hydrators may be higher than from the more common atmospheric hydrators because the exhaust gases are released intermittently over short time intervals, making control more difficult.

Product coolers are emission sources only when some of their exhaust gases are not recycled through the kiln for use as combustion air. The trend is away from the venting of product cooler exhaust, however, to maximize fuel use efficiencies. Cyclones, baghouses, and wet scrubbers have been employed on coolers for particulate control.

Other particulate sources in lime plants include primary and secondary crushers, mills, screens, mechanical and pneumatic transfer operations, storage piles, and unpaved roads. If quarrying is a part of the lime plant operation, particulate may also result from drilling and blasting. Emission factors for some of these operations are presented in Sections 8.20 and 11.2.

Emission factors for lime manufacturing are presented in Table 8.15-1.

**Table 8.15-1. EMISSION FACTORS FOR LIME MANUFACTURING
EMISSION FACTOR RATING: B**

Source	Emissions ^a							
	Particulate		Sulfur dioxide		Nitrogen oxides		Carbon monoxide	
	lb/ton	kg/MT	lb/ton	kg/MT	lb/t	kg/MT	lb/ton	kg/MT
Crushers, screens, conveyors, storage piles, unpaved roads	b	b	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Rotary kilns								
Uncontrolled ^c	340	170	d	d	3	1.5	2	1
After settling chamber or large diameter cyclone	200	100	d	d	3	1.5	2	1
After multiple cyclones	85 ^e	43 ^e	d	d	3	1.5	2	1
After secondary dust collection ^f	1	0.5	g	g	3	1.5	2	1
Vertical kilns								
Uncontrolled	8	4	NA ^h	NA ^h	NA	NA	NA	NA
Calcimatic kilns ⁱ								
Uncontrolled	50	25	NA	NA	0.2	0.1	NA	NA
After multiple cyclones	6	3	NA	NA	0.2	0.1	NA	NA
After secondary dust collection ^j	NA	NA	NA	NA	0.2	0.1	NA	NA
Fluidized-bed kilns	NA ^k	NA ^k	NA	NA	NA	NA	NA	NA
Product coolers								
Uncontrolled	40 ^l	20 ^l	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Hydrators	0.1 ^m	0.05 ^m	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.

^aAll emission factors for kilns and coolers are per unit of lime produced. Divide by two to obtain factors per unit of limestone feed to the kiln. Factors for hydrators are per unit of hydrated lime produced. Multiply by 1.25 to obtain factors per unit of lime feed to the hydrator. All emissions data are based on References 4 through 6.

^bEmission factors for these operations are presented in Sections 8.20 and 11.2.

^cNo particulate control except for settling that may occur in the stack breaching and chimney base.

^dWhen low-sulfur (less than 1 percent, by weight) fuels are used, only about 10 percent of the fuel sulfur is emitted as SO₂. When high-sulfur fuels are used, approximately 50 percent of the fuel sulfur is emitted as SO₂.

^eThis factor should be used when coal is fired in the kiln. Limited data suggest that when only natural gas or oil is fired, particulate emissions after multiple cyclones may be as low as 20 to 30 lb/ton (10 to 15 kg/MT).

^fFabric or gravel bed filters, electrostatic precipitators, or wet (most commonly venturi) scrubbers. Particulate concentrations as low as 0.2 lb/ton (0.1 kg/MT) have been achieved using these devices.

^gWhen scrubbers are used, less than 5 percent of the fuel sulfur will be emitted as SO₂, even with high-sulfur coal. When other secondary collection devices are used, about 20 percent of the fuel sulfur will be emitted as SO₂ with high-sulfur fuels and less than 10 percent with low-sulfur fuels.

^hNot available.

ⁱCalcimatic kilns generally employ stone preheaters. All factors represent emissions after the kiln exhaust passes through a preheater.

^jFabric filters and venturi scrubbers have been employed on calcimatic kilns. No data are available on particulate emissions after secondary control.

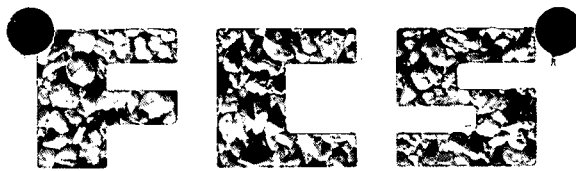
^kFluidized-bed kilns must employ sophisticated dust collection equipment for process economics; hence, particulate emissions will depend on the efficiency of the control equipment installed.

^lSome or all of the cooler exhaust is typically used in the kiln as combustion air. Emissions will result only from that fraction that is not recycled to the kiln.

^mThis is a typical particulate loading for atmospheric hydrators following water sprays or wet scrubbers. Limited data suggest particulate emissions from pressure hydrators may be approximately 2 lb/ton (1 kg/MT) of hydrate produced, after wet collectors.

References for Section 8.15

1. Lewis, C.J. and B.B. Crocker. The Lime Industry's Problem of Airborne Dust. J. Air Pol. Control Asso. Vol. 19, No. 1. January 1969.
2. Kirk-Othmer Encyclopedia of Chemical Technology. 2nd Ed. Vol 12. New York, John Wiley and Sons. 1967. p. 414-459.
3. Screening Study for Emissions Characterization From Lime Manufacture. Vulcan-Cincinnati. Cincinnati, Ohio. Prepared for U.S. Environmental Protection Agency, Research Triangle Park, N.C. Under Contract No. 68-02-0299. August 1974.
4. Evans, L.B. et al. An Investigation of the Best Systems of Emission Reduction For Rotary Kilns and Lime Hydrators in the Lime Industry. Standards Support and Environmental Impact Statement. Office of Air Quality Planning and Standards. U.S. Environmental Protection Agency. Research Triangle Park, N.C. February 1976.
5. Source Test Data on Lime Plants from Office of Air Quality Planning and Standards. U.S. Environmental Protection Agency. Research Triangle Park, N.C. 1976.
6. Air Pollutant Emission Factors. TRW Systems Group. Reston, Virginia. Prepared for the National Air Pollution Control Administration, U.S. Department of Health, Education, and Welfare. Washington, D.C. under Contract No. CPA 22-69-119. April 1970. P. 2-2 through 2-19.



FLORIDA CRUSHED STONE COMPANY

September 7, 1984

Mr. C. H. Fancy, P.E.
Deputy Bureau Chief
Bureau of Air Quality Management
Department of Environmental Regulations
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301-8241

DER
SEP 11 1984
BAQM

Dear Mr. Fancy:

With reference to your letter of August 29, 1984 to Mr. Browne Gregg, I am enclosing our check for \$1,600 for the required application fees.

Mr. John Koogler will be contacting you regarding the other items in your letter.

Regards,

A handwritten signature in dark ink, appearing to read 'RC Entorf'. The signature is written in a cursive, flowing style.

Richard C. Entorf
President

RCE/mk
Enc.
cc: J. Koogler
L. D. Walker

FLORIDA CRUSHED STONE CO.

P. O. BOX 300

LEESBURG, FLORIDA 32749-0300

7326

631

NCNB National Bank of Florida

P.O. Box 25900

Tampa, Florida 33630

September 7, 1984

PAY One thousand six hundred and no/100 DOLLARS \$1,600.00

TO THE ORDER OF

FL Dept. of Env. Regulations
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

FLORIDA CRUSHED STONE CO.

Wm Keith Darnell

DETACH AND RETAIN THIS STATEMENT

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

FLORIDA CRUSHED STONE CO.

DATE	DESCRIPTION	AMOUNT
	Application Fees	

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No 76042

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Florida Crushed Stone Co. Date Sept. 11, 1984

Address P.O. Box 300, Leesburg FL 32744-0300 Dollars \$ 1,000.00

Applicant Name & Address same as above

Source of Revenue _____

Revenue Code 001031 Application Number AC27-91429, AC27-91430, AC27-91431, AC27-91432, AC27-91433, AC27-91430, AC27-91431, AC27-91432, AC27-91433, AC27-91436

By Patricia S. Adams

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

August 29, 1984

Mr. Browne Gregg, Chairman and CED
Florida Crushed Stone Company
P. O. Box 317
Leesburg, Florida 32748

Dear Mr. Gregg:

Re: Modification to Proposed Cement Plant/Power Plant

The Bureau of Air Quality Management received your applications to modify your cement plant and power plant complex in Brooksville, Florida on August 9, 1984, for construction of a 50 tons per hour fluid-bed lime kiln and six materials handling sources. After reviewing your applications, the bureau has determined them to be incomplete. Before we further process your applications, you must submit application fees and additional information as follows:

1. The total required application fees are \$1,600; \$1,000 for Lime Plant application and \$100 for each material handling source.
2. The assumption regarding the newly proposed fluid-bed lime kiln that "the sulfur dioxide generated by the combustion of fuel in the lime plant will be completely absorbed in the fluidized lime bed" is not acceptable to the bureau. Submit documentary evidences to support your assumption.
3. The assumption regarding the dryer in the cement plant that "the fluid-bed limestone dryer will absorb at least 35 percent of the sulfur dioxide in the gas stream passing through the dryer" is not acceptable to the bureau. Submit documentary evidences to support your assumption.
4. Propose methods for controlling SO₂, NO_x, and PM emissions where the calculated emission rates are larger than your proposed emission limits. For example, the calculated SO₂ emission rate is 802 lb/hr but the proposed emission limit is 750 lb/hr while the power plant only is operating.

Mr. Browne Gregg
Page Two
August 29, 1984

When we receive the required application fee and additional information, we will resume processing your applications. If you have any questions, please call Bob King at (904)488-1344, or write to me at the above address.

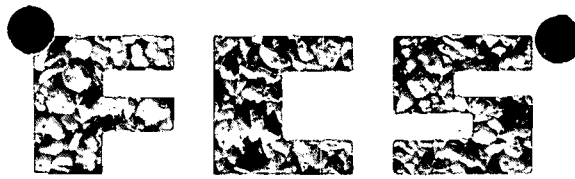
Sincerely,



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

CHF/BK/s

cc: SW District
John Koogler
Buck Oven



FLORIDA CRUSHED STONE COMPANY

August 16, 1984

Mr. C. H. Fancy
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301
Attn: Mr. Bob King

DER
AUG 20 1984
BAQM

Dear Mr. Fancy:

At the request of John Koogler, please find attached a flow diagram for the air and flue gas system for the fluid bed boiler for the Florida Crushed Stone cogeneration project.

Design conditions for the cement plant portion of the project have not changed and, therefore, the original flow diagram submitted to you for that part of the project is still valid.

Regards,

Larry D. Walker
Vice President Cement/Power Plant

LDW:SH
enclosure

cc: John B. Koogler



SHOLTES & KOOGLER ENVIRONMENTAL CONSULTANTS

1213 N.W. 6th Street Gainesville, Florida 32601 (904) 377-5822

3/8

DER

AUG 9 1984

BAQM

SKEC 307-84-02

August 8, 1984

Mr. Hamilton S. Oven
Power Plant Siting Administrator
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Subject: Florida Crushed Stone Company
Brooksville, Florida
Modification to Proposed Cement Plant/Power Plant

Dear Mr. Oven:

During the permitting of the cement plant and power plant complex proposed by the Florida Crushed Stone Company (Permits PA-8217 and AC27-61016), Florida Crushed Stone committed to reduce the sulfur dioxide emissions from the facility to a level that would allow the construction of a power plant with a similar capacity (125 megawatts, electric) in central Hernando County. In accordance with this agreement, Florida Crushed Stone is proposing the modifications described herein to achieve a significant reduction in sulfur dioxide emissions from the proposed cement plant and power plant.

The modifications presented in this correspondence affect the construction permit for the cement plant (AC27-61016) and power plant (PA-8217) and add an air pollution source construction permit application for a 50 ton per hour fluid-bed lime kiln plus air pollution source construction permit applications for six materials handling sources. The modifications to the power plant affect only the emission rates of some of the pollutants and the flue gas flow rates under various operating conditions. There will be no change in the proposed generating capacity of the power plant nor in the hours of operation. Modifications to the cement plant permit affect only the gas flow rates reported in the original construction permit application. There will be no change in the pollutant emission rates from the cement plant, no changes in the production rate of the plant and no changes in the hours of operation.

The fluid-bed lime kiln that will be added to the facility is an integral part of the system that Florida Crushed Stone will use to achieve the proposed reduction in the sulfur dioxide emissions. The lime plant will be constructed in conjunction with the power plant, with the off-gases from the lime plant being used as secondary combustion air in the power plant. In addition to providing heated secondary combustion air, the gas stream will also provide approximately four tons per hour of finely divided calcined lime particles. The injection of this lime into the power boiler will function as a lime-injection system for sulfur dioxide emission control. As with all fluid-bed lime kilns, the sulfur dioxide generated by the combustion of fuel in the lime plant will be completely absorbed in the fluidized lime bed. ?

Another internal modification to the cement plant/power plant/lime plant complex is a modification in the limestone dryer which was previously used to dry limestone fines for use in the cement plant. With the addition of the lime plant, the capacity of this dryer had to be increased to dry limestone for the lime plant as well as for the cement plant. The dryer now proposed for the facility is a 140 tons per hour fluid-bed limestone dryer. All of the heat required to dry the limestone will be provided by off-gases from the power plant and lime plant. In addition to drying the limestone, the fluid-bed limestone dryer will absorb at least 35 percent of the sulfur dioxide in the gas stream passing through the dryer. ?

The materials handling sources that must be added to handle the limestone and product lime associated with the new lime plant include:

1. A limestone storage silo to store dried limestone for the lime plant,
2. A limestone screening system to size the dried limestone,
3. A limestone fines storage bin to store dried limestone fines for the cement plant,
4. Two lime storage silos for product lime from the lime plant, and
5. A lime silo discharge system for lime load-out and shipping.

Emissions from these sources will consist entirely of particulate matter. Emissions from all of the sources will be controlled with fabric filter collectors to a particulate matter concentration in the discharged gas stream of 0.015 grains per actual cubic foot.

A flow diagram showing the interconnections between the cement plant, power plant, lime plant and limestone dryer is shown in Figure 1. In Table 1, the nine operating alternatives for the system are presented along with

Chuck
| internal gas flow rates, stack gas flow rates and a summary of sulfur dioxide, nitrogen oxides and particulate matter emission rates. The criteria which were used to establish the pollutant emission rates are presented in Table 2.

The equivalent particulate matter emission rate from the proposed lime plant, based on a limit of 0.03 pounds of particulate matter per million BTU heat input, is 14.3 pounds per hour. This emission rate is much more stringent than the emission rate of 62.4 pounds per hour that would have been arrived at on the basis of federal New Source Performance Standards; or 0.6 pounds of particulate matter per ton of kiln feed.

The criteria that were used to develop the emission rates of sulfur dioxide, particulate matter and nitrogen oxides from the power plant and lime plant are based on vendors guarantees and information developed by Florida Crushed Stone. The sulfur dioxide emission limit from the power plant and lime plant is proposed as 0.65 pounds per million BTU heat input but not to exceed 750 pounds per hour. With the power plant operating alone at a capacity of 125 megawatts, the 750 pound per hour sulfur dioxide emission rate results in an emission limit of 0.61 pounds of sulfur dioxide per million BTU heat input. This emission limit will be achieved through the absorption of sulfur dioxide by lime or limestone injection.

When both the power plant and lime plant are operating at full capacities (125 megawatts and 50 tons per hour, respectively), the sulfur dioxide emission rate of 750 pounds per hour results in a sulfur dioxide emission limit of 0.50 pounds per million BTU of heat input. This emission limit is achieved through the absorption of 100 percent of the sulfur dioxide generated in the fluid-bed lime plant and additional sulfur dioxide absorption in the power boiler resulting from the injection of lime with the heated secondary combustion air provided by the lime plant.

The nitrogen oxides emission limit for the power plant and lime plant is 0.7 pounds per million BTU heat input but not to exceed 846 pounds per hour. When the power plant is operating alone and at capacity, the 846 pound per hour nitrogen oxides emission rate results in a nitrogen oxides emission limit of 0.69 pounds per million BTU heat input. When both the power plant and lime plant are operating at capacity, the 846 pounds per hour emission rate results in a nitrogen oxides emission limit 0.56 pounds per million BTU heat input. This emission limit will be achieved through combustion modifications guaranteed by Babcock & Wilcox.

The particulate matter emission limit for the power plant and lime plant is 0.03 pounds per million BTU heat input but not to exceed 46.1 pounds per hour with both the power plant and lime plant operating at capacity and not to exceed 86.5 pounds per hour with the power plant, lime plant and cement plant operating at capacity. These particulate matter

emission rates, when combined with the stack gas flow rates for the various operating conditions listed in Table 1 result in particulate matter concentrations in the stack gas that range from 0.010 to 0.020 grains per actual cubic foot. Since the manufacturer of the baghouse will guarantee a particulate matter concentration in the discharged stack gas of 0.01 grains per actual cubic foot, all of the stated particulate matter emission limits can be achieved.

The annual emission rates of the major criteria pollutants from the power plant, cement plant and lime plant complex are presented in Table 3. The data in this table show that there will be an emission rate increase for nitrogen oxides, carbon monoxide and volatile organic compounds; but increases that are less than the de minimus emission rate increases for these pollutants. The data further show that there will be a significant reduction in the annual emission rates of sulfur dioxide and particulate matter. The increase in annual nitrogen oxides emissions result even though maximum hourly emissions will decrease (from 1223 to 1205 pounds per hour). This is a result of the method used by FDER to calculate the annual nitrogen oxides emission rate during the initial permitting process. Similarly, the annual particulate matter levels show a significant decrease, while maximum hourly emissions remain unchanged (86.5 pounds per hour), and annual sulfur dioxide emissions show a much greater decrease than would be associated with the proposed reduction in hourly emissions (965 to 800 pounds per hour); both as a result of how FDER calculated annual emissions during the initial permitting.

Emission rates of particulate matter from the new materials handling sources are summarized in Table 4. Also addressed in Table 4 are particulate matter emissions that will result from the added truck traffic required to transport the lime that will be produced in the proposed lime plant. The increase in fugitive particulate matter emissions generated by the additional truck traffic will be more than offset by the reduction in traffic generated fugitive particulate matter emissions resulting from the construction of a new paved access road to the cement plant/power plant/lime plant and to the existing limerock facilities. The reduction in fugitive particulate matter emissions achieved by the construction of this road are discussed in detail in the Sholtes & Koogler, Environmental Consultants letter to Mr. Cleve Holladay of the Florida Department of Environmental Regulation dated April 14, 1983. A reduction in the fugitive emissions resulting from the paved road are also summarized in Table 4.

From the annual emission rate data reported in Tables 3 and 4, it can be noted that the emission rate of none of the criteria pollutants will increase by an amount greater than the de minimus emission rate increase and, in two cases, there will be significant reductions in pollutant emission rates. Since there will be no pollutant emission rate increases greater than the de minimus emission rate increases established in Chapter

17-2.500, Table 500-2, FAC, the modifications proposed by Florida Crushed Stone will not be subject to a PSD review. The air pollution source construction permits submitted with this letter plus the information contained herein should provide the FDER with the information necessary to modify the affected existing construction permits and to process the permit applications for the additional air pollution sources.

The emission rates of the trace criteria pollutants resulting from the operation of the power plant, cement plant and lime plant are summarized in Table 5. From this table, it will be noted that there will be increases in the annual emission rates of mercury and beryllium. The sulfuric acid mist and fluoride emission rates will remain at approximately the same level as a result of absorption in the lime plant, absorption by the injected lime in the power boiler and absorption by the raw materials in the cement plant. Even though the emission rates of mercury and beryllium from the entire cement plant, power plant, and lime plant complex exceed the de minimus emission rates for these pollutants, the impacts of the pollutants on ambient air quality are less than the de minimus impacts for the pollutants by a factor of approximately a 1000 or more. This indicates that even though the de minimus emission rates are exceeded, there is no health hazard associated with these emissions and further discussion is warranted.

A detailed discussion of the trace pollutants, the method of calculating the emission rates and the mechanisms inherent in the Florida Crushed Stone system that reduce the emissions of these pollutants is presented in a letter from SKEC to Mr. C. H. Fancy of the FDER, dated October 28, 1983.

Since the modifications proposed by Florida Crushed Stone are not subject to a PSD review, the only air quality modeling conducted was that necessary to demonstrate that a second 125 megawatt, electric, power plant could be constructed in central Hernando County. Under the conditions of the permits issued to Florida Crushed Stone for the construction of the cement plant and power plant, the sulfur dioxide emissions were such that emissions from a similar facility in the central Hernando County area, when combined with the Florida Crushed Stone emissions, would result in a significant impact on the Chassahowitzka Class I area west of the Florida Crushed Stone site.

The reduced sulfur dioxide emission rate from the modified Florida Crushed Stone facility and modified stack gas parameters were input to the ISC-ST model along with sulfur dioxide emissions from other new sources in the area, emissions from a hypothetical 125 megawatt electric power plant (assumed to be located at the Florida Mining and Materials site) and meteorological data from Tampa representing the period 1973, 1974, 1975,

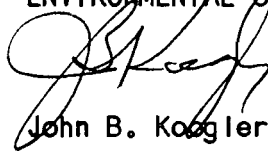
1978 and 1979. The sulfur dioxide emission rate and the stack parameters for the hypothetical power plant are represented by Florida Crushed Stone Operating Condition 1 shown in Table 1.

The results of the air quality modeling are summarized in Table 6. These results show that the sulfur dioxide impact in the Chassahowitska Class I PSD area for the annual, 3-hour and 24-hour periods are all less than the significant impact level defined in Chapter 17-2.500, FAC. The maximum predicted annual sulfur dioxide impact is 0.6 microgram per cubic meter compared with a significant impact level of 1.0 micrograms per cubic meter; the maximum 3-hour impact is 16.4 micrograms per cubic meter compared with a significant impact level of 25.0 micrograms per cubic meter; and the maximum 24-hour impact is 4.1 micrograms per cubic meter compared with the significant impact level of 5.0 micrograms per cubic meter. The modeling demonstrates that the revised Florida Crushed Stone facility and an equivalent electric power generating plant can both be operated in central Hernando County with sufficient increment remaining in the Class I PSD area for further development in the area.

After reviewing this letter and the attached permits and documentation, if you have any questions or require further information to modify the construction permits for the power plant and cement plant or to process the construction permit applications for the proposed new sources, please contact me.

Very truly yours,

SHOLTES & KOGLER,
ENVIRONMENTAL CONSULTANTS



John B. Kogler, Ph.D., P.E.

JBK:ldh
Enclosures

cc: Mr. C.H. Fancy
Mr. Browne Gregg
Mr. Dick Entorf
Mr. Larry Curtin

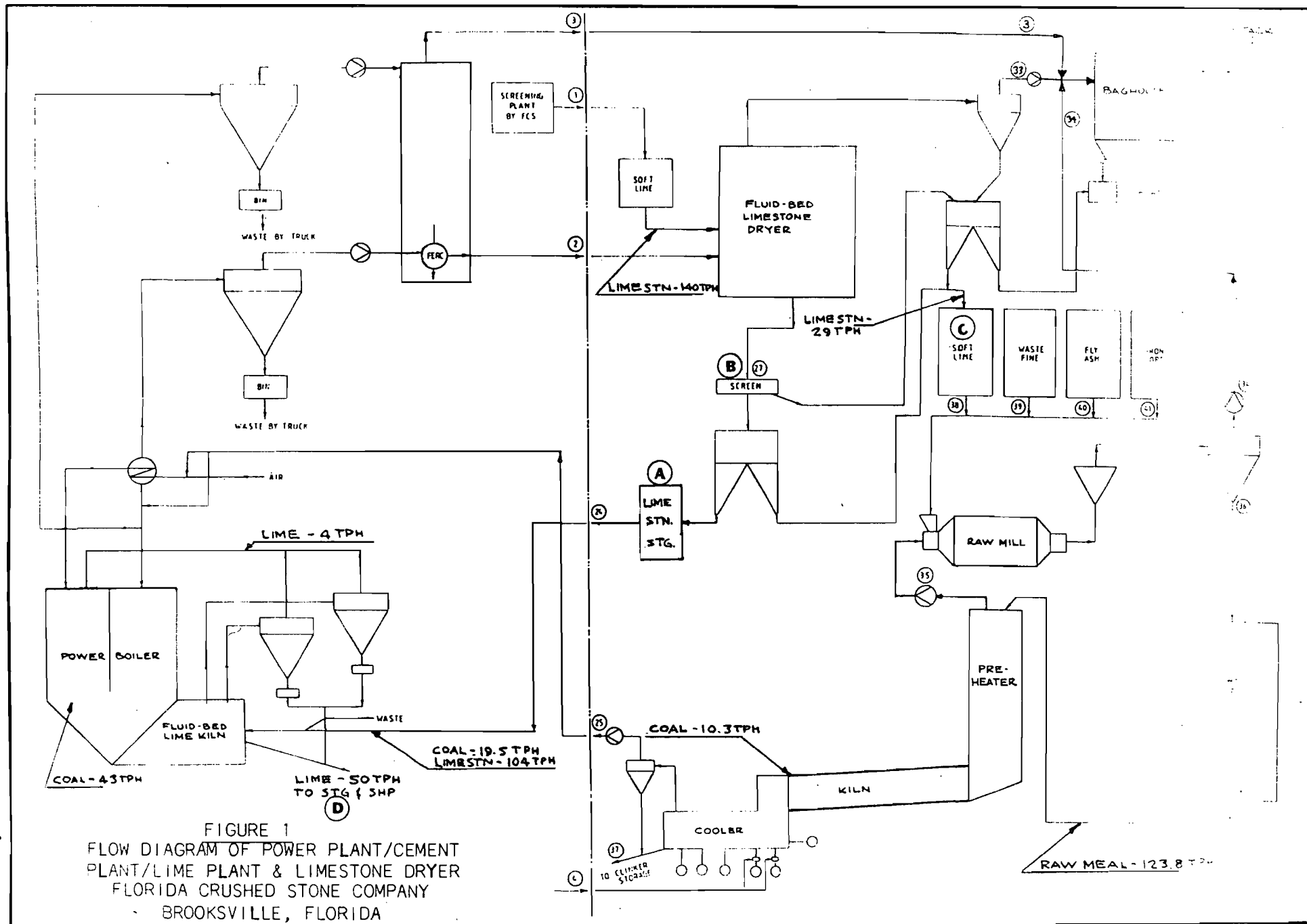


FIGURE 1
 FLOW DIAGRAM OF POWER PLANT/CEMENT
 PLANT/LIME PLANT & LIMESTONE DRYER
 FLORIDA CRUSHED STONE COMPANY
 BROOKSVILLE, FLORIDA

TABLE 1

INTERNAL AND STACK GAS FLOW RATES AND TEMPERATURES AND
AIR POLLUTANT EMISSION RATES FOR VARIOUS OPERATING CONDITIONS

FLORIDA CRUSHED STONE COMPANY
BROOKSVILLE, FLORIDA

Case	Operating Units (1)	Gas Stream (2)						Stack Gas				
		Flow (ACFM) (3)	Temp (°F)	Flow (ACFM) (33)	Temp (°F)	Flow (ACFM) (34)	Temp (°F)	Flow (ACFM)	Temp (°F)	SO ₂ (lb/hr)	NO _x (lb/hr)	P.M. (lb/hr)
1	Power	420,000	330	0	-	0	-	420,000	330	750	846	37.0
2	Power/lime	471,290	355	0	-	0	-	471,290	355	750	846	46.1
3	Power/lime/cement	532,459	403	0	-	159,637	250	692,096	362	800 (3)	1205 (4)	86.5 (5)
4	Power/lime/cement/dryer	110,380	516	371,704	220	159,637	250	641,721	265	650	1205	86.5
5	Power/lime/dryer	107,710	300	324,198	220	0	-	431,908	238	600	846	46.1
6	Power/cement/dryer	137,508	303	342,020	361	159,637	250	639,243	318	770	1205	86.5
7	Power/cement	489,520	240	0	-	159,637	250	648,757	242	800	1205	86.5
8	Power/dryer	106,289	290	289,255	220	0	-	395,544	237	720	846	37.0
9	Cement	119,000	350	0	-	159,637	250	278,637	290	50	359	49.5

- (1) Power - Power plant @ 125 mw
Lime - Fluid-bed lime kiln @ 50 tph lime
Dryer - Fluid-bed limestone dryer @ 140 tph
Cement - Cement plant @ 75 tph clinker.
- (2) See attached Flow Diagram for identification of gas streams.
- (3) Maximum hourly sulfur dioxide emission rate of 800 lb/hour represents a reduction of 165 lb/hr from presently permitted maximum emission rate.
- (4) Maximum hourly nitric oxides emission rate of 1205 lb/hour represents a reduction of 18 lb/hr from presently permitted maximum emission rate.
- (5) Maximum hourly particulate matter emission rate of 86.5 lb/hour represents no change from presently permitted maximum emission rate.

TABLE 2

EMISSION LIMITING CRITERIA FOR
POWER PLANT/LIME PLANT/CEMENT PLANT

FLORIDA CRUSHED STONE COMPANY
BROOKSVILLE, FLORIDA

NITRIC OXIDES -

Cement Plant	- 359 lb/hr (as permitted)
Power/Lime Plant	- 0.7 lb/10 ⁶ BTU not to exceed <u>846 lb/hr</u>
TOTAL	1205 lb/hr maximum or 4630 tpy

PARTICULATE MATTER -

Cement Plant	- 0.1 lb/ton of feed; clinker cooler and 0.3 lb/ton of feed; kiln not to exceed 49.5 lb/hr (as permitted)
Power/Lime Plant	- 0.03 lb/10 ⁶ BTU not to exceed 46.1 lb/hr
Power/Lime/Cement	- 0.1 lb/ton of feed; clinker cooler, 0.3 lb/ton of feed; kiln and 0.03 lb/10 ⁶ BTU Power and Lime Not to exceed 86.5 lb/hr or 336 tpy

SULFUR DIOXIDE -

Cement Plant	- 50.0 lb/hr (as permitted)
Power/Lime Plant	- 0.65 lb/10 ⁶ BTU not to exceed <u>750 lb/hr</u>
TOTAL	- 800 lb/hr or 3147 tpy

CARBON MONOXIDE -

Cement Plant	- 0
Power/Lime Plant	= 1.0 lb/ton coal x 62.4 tph = 62.4 lb/hr or 286 tpy

TABLE 3

EMISSION SUMMARY OF MAJOR CRITERIA POLLUTANTS
FROM POWER PLANT/LIME PLANT/CEMENT PLANT COMPLEX

FLORIDA CRUSHED STONE COMPANY
BROOKSVILLE, FLORIDA

Pollutant	Annual Emission Rate (tons/year)			De Minimus Emission Rate Increase
	Proposed ⁽¹⁾	Permitted ⁽²⁾	(Decrease)	
Sulfur Dioxide	3147	5475	(2328)	40
Nitrogen Oxides	4630	4598	32	40
Particulate Matter	336	595	(259)	25
Carbon Monoxide	286 ⁽³⁾	197	89	100
VOC	86 ⁽⁴⁾	71	15	40

- (1) Proposed Florida Crushed Stone facility with 125 megawatt power plant, a 50 tph lime kiln and a 75 tph (clinker) cement plant. The maximum annual emission rates were calculated assuming Case 3 operated 7620 hours per year and Case 2 operated an additional 264 hours per year.
- (2) Proposed Florida Crushed Stone facility as permitted with a 125 megawatt power plant and a 75 tph (clinker) cement plant.
- (3) Based on 1.0 lb CO per ton of coal and a proposed coal use rate of 572,000 tons per year.
- (4) Based on 0.3 lb VOC per ton of coal and a proposed coal use rate of 572,000 tons per year.

TABLE 4

PARTICULATE MATTER EMISSIONS FROM NEW MATERIALS
HANDLING SOURCES AND ADDITIONAL TRUCK TRAFFICFLORIDA CRUSHED STONE COMPANY
BROOKSVILLE, FLORIDA

Sources ⁽¹⁾	Particulate Matter Emission Rates	
	(lbs/hr)	(tons/year)
Screens Following Limestone Dryer	0.8	3.0
Limestone Storage for Lime Plant	1.2	4.6
Limestone Fines Storage for Cement Plant	0.8	3.0
Lime Storage Silo A	0.6	2.4
Lime Storage Silo B	0.6	2.4
Lime Shipping	0.6	2.4
SUB-TOTAL	---	17.8
Traffic ⁽²⁾	---	(-818)

(1) See construction permit applications for derivation of emission rates except for traffic related emissions.

(2) Traffic related fugitive particulate emissions were derived by modifying the information provided to FDER in the SKEC letter dated April 14, 1983 to account for the additional 5100 trucks per year needed to ship lime from the new lime plant (half the lime will be shipped by rail):

Travel by additional trucks = 10,200 miles/year
 Travel by trucks to cement plant = 41,600 miles/year (a)
 Emissions from trucks to cement plant = 50 tons/year (a)
 Emissions from additional trucks = $(10,200/41,600) \times 50$
 = 12.3 tons/year.

Total Proposed Traffic Emissions from FCS facility = 731 tpy
 (= 719 tpy (a) + 12.3 tpy)

Total Existing Traffic Emissions from FCS facility = 1549 tpy (a)
 Net Change = Decrease of 818 tpy
 (a) from SKEC letter to Cleve Holladay dated April 14, 1983.

TABLE 5
EMISSIONS OF TRACE CRITERIA POLLUTANTS⁽¹⁾

FLORIDA CRUSHED STONE COMPANY
 BROOKSVILLE, FLORIDA

Pollutant	Emission Factor ⁽²⁾ (lb/10 ¹² BTU)	Emission Rate (pounds/year)				Control Efficiency ⁽¹⁾ (%)
		Uncontrolled ⁽³⁾	Controlled		De Minimus ⁽²⁾	
			Proposed ⁽¹⁾	Permitted		
Mercury	18.2	254	254 ⁽⁴⁾ ✓	236	200	0
Beryllium	316.8	4,419	4.4 ⁽⁵⁾	3.9	0.8	99.9
Fluoride	9320.0	130,014	5520	5520	6,000	95.8 min.
H ₂ SO ₄ Mist	0.74% of S in coal	194,443	13,400	13,400	14,000	93.1 min.

(1) Calculated by method outlined in Sholtes & Koogler, Environmental Consultants (SKEC) letter to C. H. Fancy and dated October 28, 1983.

(2) From Health Impacts, Emissions, and Emission Factors for Non-Criteria Pollutants Subject to De Minimus Guidelines and Emitted from Stationary Combustion Processes, EPA 450/2-80-074, June 1980.

(3) Based on the following heat input rates:

$$\begin{aligned} \text{Power Plant} &= 43.0 \text{ tons coal/hr} \times 2000 \text{ lbs/ton} \times 12,200 \text{ BTU/lb} \times 7884 \text{ hrs/year} \\ &= 8.27 \times 10^{12} \text{ BTU/year} \end{aligned}$$

$$\begin{aligned} \text{Lime Plant} &= 19.5 \text{ tons coal/hr} \times 2000 \times 12,200 \times 7884 \\ &= 3.75 \times 10^{12} \text{ BTU/year} \end{aligned}$$

$$\begin{aligned} \text{Cement Plant} &= 10.4 \text{ tons coal/hr} \times 2000 \times 12,200 \times 7620 \\ &= 1.93 \times 10^{12} \text{ BTU/year} \end{aligned}$$

$$\text{TOTAL} = 13.95 \times 10^{12} \text{ BTU/year}$$

(4) Exceeds de minimus emission rate, however the maximum 24-hour average impact will be in the range of 0.0005₃ ug/m³ compared with the de minimus 24-hour average impact for mercury of 0.1 ug/m³.

(5) Exceeds de minimus emission rate, however the maximum 24-hour average impact will be in the range of 0.000007₃ ug/m³ compared with a de minimus 24-hour average impact for beryllium of 0.005 ug/m³.

TABLE 6

CLASS I AREA SULFUR DIOXIDE IMPACTS
NEW AND PROPOSED SOURCES IN BROOKSVILLE, FLORIDA AREA

FLORIDA CRUSHED STONE COMPANY
BROOKSVILLE, FLORIDA

Class I Area Sulfur Dioxide Impact ($\mu\text{g}/\text{m}^3$)									
Year	Annual			3-Hour			24-Hour		
	FCS ⁽¹⁾	FMM ⁽²⁾	All ⁽³⁾	FCS	FMM	All	FCS	FMM	All
1973	0.2	0.3	0.6	8.5	11.1	16.4	2.1	2.7	4.1
1974	0.2	0.3	0.5	8.3	10.5	15.3	2.1	2.5	3.6
1975	0.2	0.4	0.6	10.1	11.9	13.8	2.4	2.8	3.8
1978	0.2	0.3	0.5	8.7	9.1	13.7	2.1	2.5	3.1
1979	0.2	0.4	0.6	8.0	11.1	14.0	2.3	3.0	3.7
Std		1.0			25.0			5.0	

(1) Florida Crushed Stone with 125 mw power plant, 50 tph lime plant, 75 tph (clinker) cement plant and 140 tph limestone dryer.

(2) Florida Mining and Materials with existing cement plant plus a 125 mw power plant.

(3) Sources (1) and (2) plus other new sulfur dioxide sources.

CRITERIA POLLUTANT
EMISSION RATE CALCULATIONS
FOR ALL OPERATING CONDITIONS
(As Presented in Table 1)

FLORIDA CRUSHED STONE COMPANY
BROOKSVILLE, FLORIDA

EMISSION RATE CALCULATIONS
POWER / LIME / CEMENT PLANT
FLORIDA CRUSHED STONE COMPANY
BROOKSVILLE, FLORIDA

CASE 1

Power Plant Only @ 125 MW

SO₂ @ 0.65 lb/10⁶ BTU, not to exceed 750 lb/hr

$$\begin{aligned} &= 1234.0 \times 10^6 \text{ BTU/hr} \times 0.65 \\ &= 802 \text{ lb/hr} > 750 \text{ lb/hr} \\ &\therefore \text{Set at limit of} \\ &= 750 \text{ lb SO}_2/\text{hr} \end{aligned}$$

$$\frac{750}{0.65} = 1,154$$

NO_x @ 0.7 lb/10⁶ BTU, not to exceed 846 lb/hr

$$\begin{aligned} &= 1234.0 \times 10^6 \times 0.7 \\ &= 864 \text{ lb/hr} > 846 \text{ lb/hr} \\ &\therefore \text{Set at limit of} \\ &= 846 \text{ lb NO}_x/\text{hr} \end{aligned}$$

$$\frac{846}{0.7} = 1,209$$

P.M. @ 0.03 lb/10⁶ BTU

$$\begin{aligned} &= 1234.0 \times 10^6 \times 0.03 \\ &= 37.0 \text{ lb P.M./hr} \end{aligned}$$

CO @ 1.0 lb/ton Coal

$$\begin{aligned} &= 50.0 \text{ tph coal} \times 1.0 \text{ lb/ton} \\ &= 50.0 \text{ lb/hr} \end{aligned}$$

CASE 2

Power Plant @ 125 Mw
Lime Plant @ 50 tph

SO_2

$$= 1538 \times 10^6 \text{ BTU/hr} \times 0.65 = 999.7$$

$$> 750 \text{ lb/hr}$$

\therefore Set at limit of

$$= 750 \text{ lb } \text{SO}_2 / \text{hr}$$

NO_x

$$= 1538 \times 10^6 \text{ BTU/hr} \times 0.7 = 1077$$

$$> 846 \text{ lb/hr}$$

\therefore Set at limit of

$$= 846 \text{ lb } \text{NO}_x / \text{hr}$$

P.H.

$$= 1538 \times 10^6 \text{ BTU/hr} \times 0.03$$

$$= 46.1 \text{ lb P.H. / hr}$$

CO

$$= 62.4 \text{ tph coal} \times 1.0$$

$$= 62.4 \text{ lb CO/hr}$$

CASE 3

Power Plant @ 125 MW
Lime Plant @ 50 tph
Cement Plant @ 75 tph clinker

SO_2

Power/Lime plants	=	750 lb/hr (limit)
Cement plant	=	<u>50 lb/hr (as permitted)</u>
Total SO_2	=	800 lb SO_2 /hr

NO_x

Power/Lime plants	=	846 lb/hr (limit)
Cement plant	=	<u>359 lb/hr (as permitted)</u>
Total NO_x	=	1205 lb NO_x /hr

P.M.

Power/Lime plants	=	46.1 lb/hr
Cement plant	=	<u>49.5 lb/hr (as permitted)</u>
Total PM	=	95.6 lb PM/hr
	>	86.5 lb/hr
	∴	Set at limit of
	=	86.5 lb PM/hr (limit)

CO

Power/Lime plants	=	62.4 lb/hr
Cement plant	=	<u>0</u>
Total CO	=	62.4 lb CO/hr

CASE 4

Power Plant @ 125 mw
Lime Plant @ 50 tph
Cement Plant @ 75 tph clinker
Dryer @ 140 tph

SO₂

Power / Lime Plant / Dryer	= 600 lb/hr
Cement Plant	= 50 lb/hr (as permitted)
Total SO ₂	= 650 lb SO ₂ /hr

NO_x

Power / Lime plants	= 846 lb/hr (limit)
Cement plant	= 359 lb/hr (as permitted)
Dryer	= 0 lb/hr
Total NO _x	= 1205 lb/hr

P.M.

Power / Lime plants	= 46.1 lb/hr
Cement plant	= 49.5 lb/hr
Dryer	= 0 lb/hr (included in Power/ Lime plant)
	<u>95.6 lb/hr</u>
	set at limit of
Total PM	= 86.5 lb PM/hr (limit)

CO

Power / Lime plants	= 62.4 lb/hr
Cement plant	= 0
Dryer	= 0
Total CO	= 62.4 lb CO/hr

CASE 5

Power Plant @ 125 Mw
Lime Plant @ 50 tph
Dryer @ 140 tph

$$\text{SO}_2 \text{ Power / Lime / Dryer} = 600 \text{ lb/hr}$$

$$\begin{array}{r} \text{NO}_x \\ \text{Power / Lime Plants} \\ \text{Dryer} \end{array} = \begin{array}{r} 846 \text{ lb/hr (limit)} \\ 0 \end{array}$$

$$\text{Total NO}_x = 846 \text{ lb/hr}$$

$$\begin{array}{r} \text{PM} \\ \text{Power / Lime Plants} \\ \text{Dryer} \end{array} = \begin{array}{r} 46.1 \text{ lb/hr} \\ 0 \end{array}$$

$$\text{Total P.M.} = 46.1 \text{ lb/hr}$$

$$\begin{array}{r} \text{CO} \\ \text{Power / Lime Plant} \\ \text{Dryer} \end{array} = \begin{array}{r} 62.4 \text{ lb/hr} \\ 0 \end{array}$$

$$\text{Total CO} = 62.4 \text{ lb/hr}$$

CASE 6

Power Plant @ 125 Mw
Dryer @ 140 tph
Cement Plant @ 75 tph clinker

SO_2

Power Plant / Dryer	= 720 lb/hr
Cement Plant	= 50 lb/hr (as permitted)
Total SO_2	<hr/> = 770 lb/hr

NO_x

Power Plant	= 846 lb/hr (limit)
Dryer	= 0
Cement Plant	= 359 lb/hr (as permitted)
Total NO_x	<hr/> = 1205 lb/hr

PM

Power Plant	= 37.0 lb/hr
Dryer	= 0
Cement Plant	= 49.5 lb/hr (as permitted)
Total PM	<hr/> = 86.5 lb/hr

CO

Power Plant	= 50.0 lb/hr
Dryer	= 0
Cement Plant	= 0
Total CO	<hr/> = 50.0 lb/hr

CASE 7

Power Plant @ 125 mw
Cement Plant @ 75 tph clinker

$$\begin{array}{rcl} \text{SO}_2 & & \\ \text{Power Plant} & = & 750 \text{ lb/hr (limit)} \\ \text{Cement Plant} & = & 50 \text{ lb/hr (as permitted)} \\ \hline \text{Total SO}_2 & = & 800 \text{ lb/hr} \end{array}$$

$$\begin{array}{rcl} \text{NO}_x & & \\ \text{Power Plant} & = & 846 \text{ lb/hr (limit)} \\ \text{Cement Plant} & = & 359 \text{ lb/hr (as permitted)} \\ \hline \text{Total NO}_x & = & 1205 \text{ lb/hr} \end{array}$$

$$\begin{array}{rcl} \text{P.M.} & & \\ \text{Power Plant} & = & 37.0 \text{ lb/hr} \\ \text{Cement Plant} & = & 49.5 \text{ lb/hr (as permitted)} \\ \hline \text{Total PM} & = & 86.5 \text{ lb/hr} \end{array}$$

$$\begin{array}{rcl} \text{CO} & & \\ \text{Power Plant} & = & 50.0 \text{ lb/hr} \\ \text{Cement Plant} & = & 0 \\ \hline \text{Total CO} & = & 50.0 \text{ lb/hr} \end{array}$$

CASE 8

Power Plant @ 125 Mw
Dryer @ 90 tph

$$\text{SO}_2 \text{ Power Plant/Dryer} = 720 \text{ lb/hr}$$

$$\begin{array}{r} \text{NO}_x \text{ Power Plant} \\ \text{Dryer} \end{array} \begin{array}{r} = 846 \text{ lb/hr (limit)} \\ = 0 \\ \hline \end{array}$$
$$\text{Total NO}_x = 846 \text{ lb/hr}$$

$$\begin{array}{r} \text{PM} \\ \text{Power Plant} \\ \text{Dryer} \end{array} \begin{array}{r} = 37.0 \text{ lb/hr} \\ = 0 \\ \hline \end{array}$$
$$\text{Total PM} = 37.0 \text{ lb/hr}$$

$$\begin{array}{r} \text{CO} \\ \text{Power Plant} \\ \text{Dryer} \end{array} \begin{array}{r} = 50.0 \text{ lb/hr} \\ = 0 \\ \hline \end{array}$$
$$\text{Total CO} = 50.0 \text{ lb/hr}$$

CASE 9

Cement Plant @ 75 tph clinker

SO₂ Cement Plant = 50.0 lb/hr (as permitted)

NO_x Cement Plant = 359 lb/hr (as permitted)

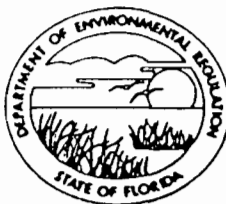
DM Cement Plant = 49.5 lb/hr (as permitted)

CO Cement Plant = 0 (as permitted)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER
DISTRICT

3319 MAGUIRE BOULEVARD
SUITE 232
ORLANDO, FLORIDA 32803



DER

AUG 9 1984

BAQM

BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ALEX SENKEVICH
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Limestone Screening Baghouse New Existing

APPLICATION TYPE: Construction Operation Modification

COMPANY NAME: Florida Crushed Stone Company COUNTY: Hernando

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

SOURCE LOCATION: Street Cobb Rd.; 2 mi NW of Brooksville City Brooksville

UTM: East 359.998 km North 3162.392 km

Latitude ° ' "N Longitude ° ' "W

APPLICANT NAME AND TITLE: Browne Gregg, Chairman and CEO

APPLICANT ADDRESS: Post Office Box 317, Leesburg, Florida 32748

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co.

I certify that the statements made in this application for a Construction permit are true, correct and complete to the best of my knowledge and belief. Further I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof, 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: *F. Brown Gregg*
Browne Gregg, Chairman and CEO
Name and Title (Please Type)

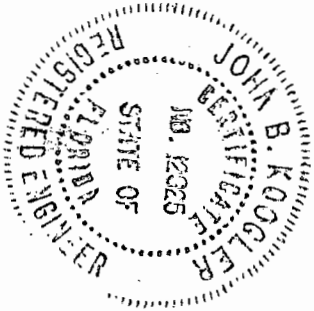
Date: 8/8/84 Telephone No. (904) 787-0608

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

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

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

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



Signed [Signature]

John B. Koogler, Ph.D., P.E.
Name (Please Type)

Sholtes & Koogler, Environmental Consultants
Company Name (Please Type)

1213 NW 6th Street, Gainesville, FL 32601
Mailing Address (Please Type)

Florida Registration No. 12925 Date: 8/31/84 Telephone No. (904) 377-5822

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.

Baghouse to control particulate matter emissions from screens following a 140 tph limestone dryer. Particulate emissions will be controlled by a baghouse with a 6.5-1 air to cloth ratio.

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

Start of Construction November 1984 Completion of Construction October 1986

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.)

Installed cost - \$106,000

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

None

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
if power plant, hrs/yr _____ ; if seasonal, describes: The screens will operate
7884 hours per year.

F. If this is a new source or major modification, answer the following questions.
(Yes or No) No - Minor modifications to major emitting facility.

- 1. Is this source in a non-attainment area for a particular pollutant? NO
 - a. If yes, has "offset" been applied? --
 - b. If yes, has "Lowest Achievable Emission Rate" been applied? --
 - c. If yes, list non-attainment pollutants. --

2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. NO

3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. NO

4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? 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? _____

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		
Dried Limestone	Part.Matter	2-3	280,000	B

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

- Total Process Input Rate (lbs/hr): 280,000 max. drying rate
- Product Weight (lbs/hr): 280,000

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 ⁴ Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Part Matter	0.71 0.8*	3.0 ⁴	17-2.610FAC	1/2	771	3040	Stack
*Based on 0.015 gr/acf							
Potential Emissions = 6000 acfm x 60 min/hr x (15 gr/acf/7000) = 771 lbs/hr							
x 7884/2000							
= 2026 tpy							

3040

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)
Baghouse with 6.5-1 air to cloth ratio	Part. Matter	99.90%	> 0.5 um	Estimate
Efficiency based on inlet and outlet particulate concentration				
= $(15 - 0.015) \times 100 / 15 = 99.90\%$				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
None			

*Units: Natural Gas--MCF/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 Not Applicable Maximum _____

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

Limestone fines will be combined with the fines from screening and used in the
cement plant.

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

Stack Height: 30 ft. Stack Diameter: 2.0 ft.
 Gas Flow Rate: 6000 ACFM 5064 DSCFM Gas Exit Temperature: 150 °F.
 Water Vapor Content: 2-3 % Velocity: 31.8 FPS

SECTION IV: INCINERATOR INFORMATION

NOT APPLICABLE

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
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^a Velocity: _____ FPS

^aIf 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: _____

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

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)]
(As shown in Section III A and B)
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. (See Attachment 1)
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
(See Section IIIC and Attachment 1)
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.)
(See Attachment 1)
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).
(See Section IIID and Attachment 1)
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.
(Attachment 2)
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).
(Included in original Florida Crushed Stone Attachment package)
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.
(Included in original Florida Crushed Stone Attachment package)

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

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

Not Applicable

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

Yes No

Contaminant	Rate or Concentration

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

Yes No

Contaminant	Rate or Concentration

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

Contaminant	Rate or Concentration

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

1. Control Device/System:

2. Operating Principles:

3. Efficiency:*

4. Capital Costs:

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height:

ft.

b. Diameter:

ft.

c. Flow Rate:

ACFM

d. Temperature:

°F.

e. Velocity:

FPS

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

1.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

2.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

¹Explain method of determining efficiency.

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

j. Applicability to manufacturing processes:

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

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:¹

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:²

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

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

(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

Not Applicable

A. Company Monitored Data

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

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

2. Instrumentation, Field and Laboratory

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

b. Was instrumentation calibrated in accordance with Department procedures?

[] Yes [] No [] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. ____ Year(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.

FABRIC FILTER DATA

Source Limestone Screens

Type of Particulate Limestone

Gas Flow (Acfm) 6000

Temperature (°F) 150

Part. Conc. (gr/Acf) 15

Collector Pressure Drop (In. H₂O) 11

Fan Requirement (Hp) 20

Air/Cloth Ratio (Acfm/ft²) 6.5

Bag Diameter (in.) 6

Bag Length (ft.) 10

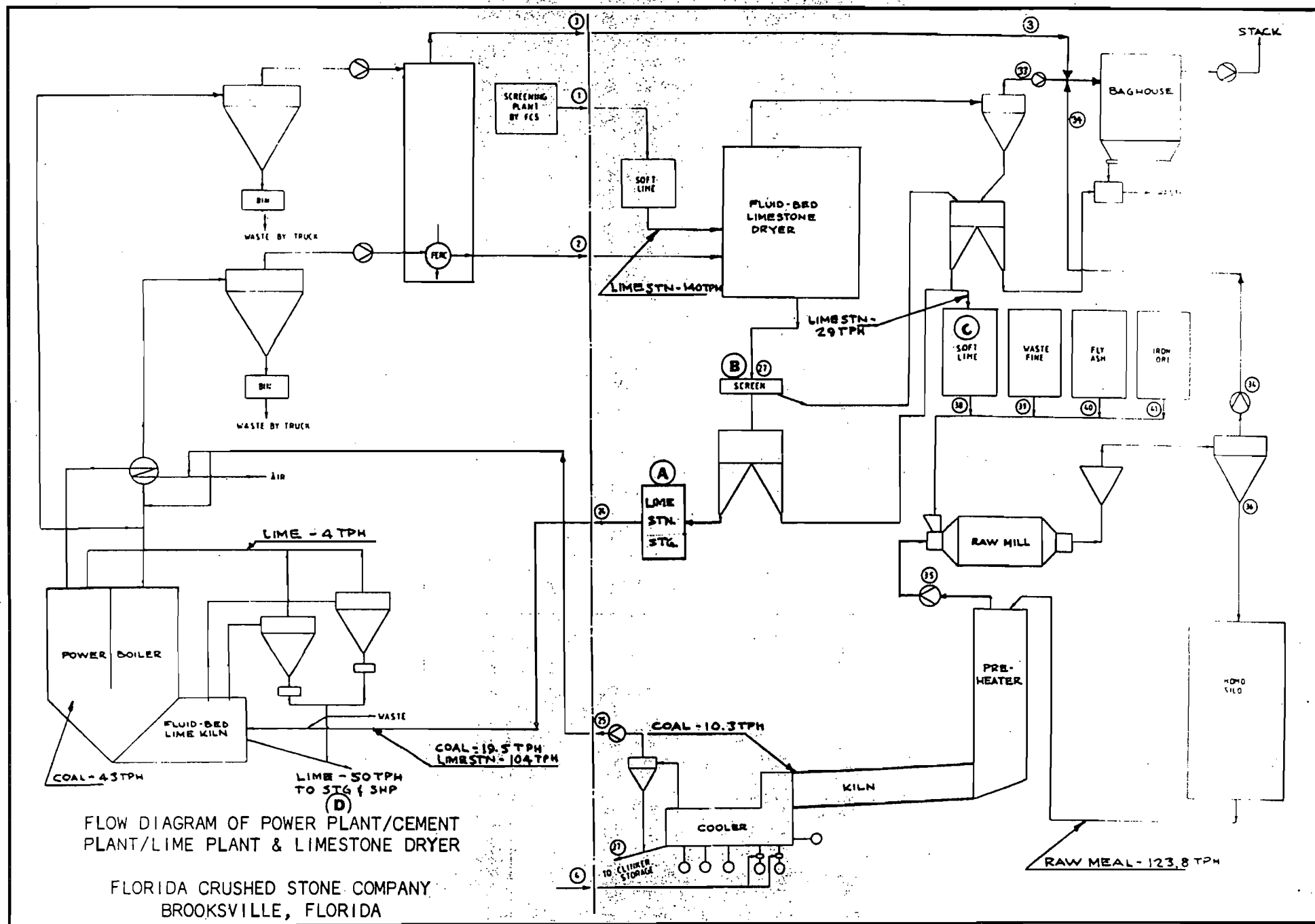
Number of Bags 60

Number of Compartments 1

Filter Material Polyester

Cleaning Method Pulse Jet

Best Available Copy



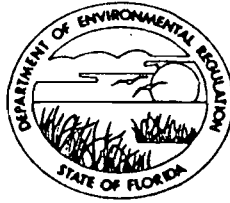
FLOW DIAGRAM OF POWER PLANT/CEMENT PLANT/LIME PLANT & LIMESTONE DRYER

FLORIDA CRUSHED STONE COMPANY
 BROOKSVILLE, FLORIDA

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER
DISTRICT

3319 MAGUIRE BOULEVARD
SUITE 232
ORLANDO, FLORIDA 32803



DER

AUG 9 1984

BAQM

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

ALEX SENKEVICH
DISTRICT MANAGER

APPLICATION TO ~~OPERATE~~ CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Limestone Fines Bin for Cement Plant New Existing¹

APPLICATION TYPE: Construction Operation Modification

COMPANY NAME: Florida Crushed Stone Company 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) Limestone Storage Bin

SOURCE LOCATION: Street Cobb Rd.; 2 mi NW of Brooksville City Brooksville

UTM: East 360.000 km North 3162.337 km

Latitude ° ' "N Longitude ° ' "W

APPLICANT NAME AND TITLE: Browne Gregg, Chairman and CEO

APPLICANT ADDRESS: Post Office Box 317, Leesburg, Florida 32748

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co.

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

*Attach letter of authorization

Signed: *Browne Gregg*

Browne Gregg, Chairman and CEO
Name and Title (Please Type)

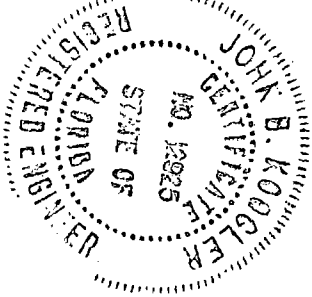
Date: 8/8/84 Telephone No. (904)787-0608

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

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

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

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



Signed *John B. Koogler*
 John B. Koogler, Ph.D., P.E.
 Name (Please Type)

Sholtes & Koogler, Environmental Consultants
 Company Name (Please Type)

1213 NW 6th Street, Gainesville, FL 32601
 Mailing Address (Please Type)

Florida Registration No. 12925 Date: 9/8/84 Telephone No. (904) 377-5822

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.

Baghouse on a limestone fines storage bin associated with the cement plant. The bin receives fines from the screens following the 140 tph limestone dryer. Particulate Emissions will be controlled by a baghouse with a 6.5-1 air to cloth ratio.

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

Start of Construction November 1984 Completion of Construction October 1986

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.)

Installed cost - \$101,000

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

None

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
if power plant, hrs/yr _____ ; if seasonal, describe: This source will operate
7884 hours per year.

F. If this is a new source or major modification, answer the following questions.
(Yes or No) No - Minor modifications to major emitting facility.

1. Is this source in a non-attainment area for a particular pollutant? NO
a. If yes, has "offset" been applied? ---
b. If yes, has "Lowest Achievable Emission Rate" been applied? ---
c. If yes, list non-attainment pollutants. ---

2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. NO

3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. NO

4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? 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? _____
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		
Dried Limestone	Part.Matter	4-5	100,000	C
Fines				

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

1. Total Process Input Rate (lbs/hr): 100,000 max. transfer rate
2. Product Weight (lbs/hr): 100,000

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/yr	T/yr	
Part.Matter	0.17 0.8*	3.0 ⁴ 3.0	17-2.610FAC	0.6	771	2026	Stack
* Based on 0.015 gr/acf							
Potential Emissions = 6000 acfm x 60 min/hr x (15 gr/acf/7000) = 771 lbs/hr							
					x 7884/2000		
					= 3040 tpy		

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)
Baghouse with 6.5-1 air to cloth ratio	Part. Matter	99.90%	> 0.5 um	Estimate
Efficiency based on inlet and outlet particulate concentration				
= $(15 - 0.015) \times 100 / 15 = 99.90\%$				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
None			

*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 Not Applicable Maximum _____

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

Limestone fines will be returned to the cement plant as a raw material.

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

Stack Height: 150 ft. Stack Diameter: 2.0 ft.
 Gas Flow Rate: 6000 ACFM 5515 DSCFM Gas Exit Temperature: 100 °F.
 Water Vapor Content: 2-3 % Velocity: 31,8 FPS

SECTION IV: INCINERATOR INFORMATION
 NOT APPLICABLE

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
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 devices: Cyclone Wet Scrubber Afterburner
 Other (specify) _____

Brief description of operating characteristics of control devices: _____

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

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)]
(As shown in Section III A and B)
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.
(See Attachment 1)
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
(See Section IIIC and Attachment 1)
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.)
(See Attachment 1)
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).
(See Section IIID and Attachment 1)
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.
(Attachment 2)
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).
(Included in original Florida Crushed Stone Attachment package)
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.
(Included in original Florida Crushed Stone Attachment package)

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

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

Not Applicable

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

Yes No

Contaminant

Rate or Concentration

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

Yes No

Contaminant

Rate or Concentration

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

Contaminant

Rate or Concentration

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

1. Control Device/System:

2. Operating Principles:

3. Efficiency:*

4. Capital Costs:

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

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

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

1.

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

2.

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

¹Explain method of determining efficiency.
²Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes:

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

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:¹

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:²

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

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

(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

Not Applicable

A. Company Monitored Data

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

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

2. Instrumentation, Field and Laboratory

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

b. Was instrumentation calibrated in accordance with Department procedures?

[] Yes [] No [] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. ____ Year(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.

FABRIC FILTER DATA

Source Limestone Fines Storage

Type of Particulate Limestone

Gas Flow (Acfm) 6000

Temperature (°F) 100

Part. Conc. (gr/Acf) 15

Collector Pressure Drop (In. H₂O) 10

Fan Requirement (Hp) 20

Air/Cloth Ratio (Acfm/ft²) 6.5

Bag Diameter (in.) 6

Bag Length (ft.) 10

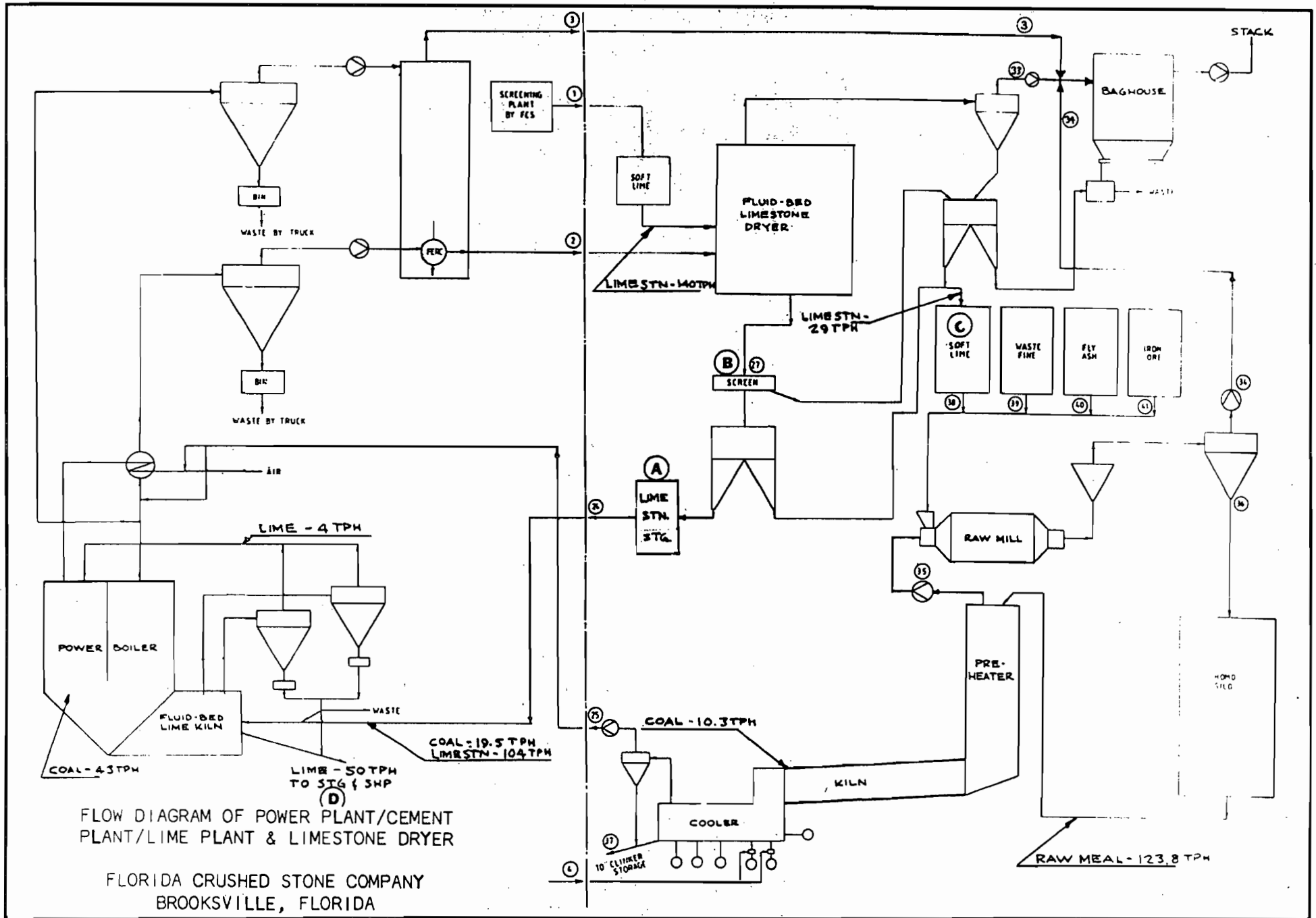
Number of Bags 60

Number of Compartments 1

Filter Material Polyester

Cleaning Method Pulse Jet

Best Available Copy

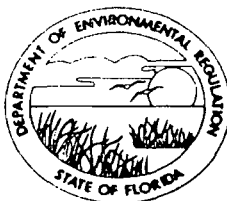


STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



DER

AUG 9 1984

BAQM

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

ALEX SENKEVICH DISTRICT MANAGER

APPLICATION TO ~~OPERATE~~/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Lime Plant New¹ [] Existing¹

APPLICATION TYPE: Construction [] Operation [] Modification

COMPANY NAME: Florida Crushed Stone Company 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) Fluid-Bed Lime Plant

SOURCE LOCATION: Street Cobb Rd.; 2 miles NW of Brooksville City Brooksville

UTM: East 360.008 km North 3162.392 km

Latitude _____° _____' _____"N Longitude _____° _____' _____"W

APPLICANT NAME AND TITLE: Browne Gregg, Chairman and CEO

APPLICANT ADDRESS: Post Office Box 317, Leesburg, Florida 32748

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co

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

*Attach letter of authorization

Signed: [Signature]
Browne Gregg, Chairman and CEO
Name and Title (Please Type)

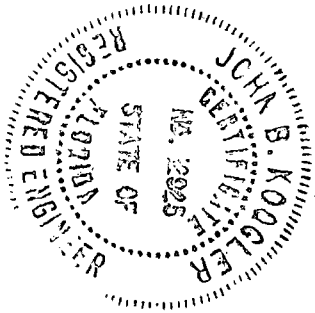
Date: 8/8/84 Telephone No. (904) 787-0608

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

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

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

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



Signed *J. Koogler*

John B. Koogler, Ph.D., P.E.
Name (Please Type)

Sholtes & Koogler, Environmental Consultants
Company Name (Please Type)

1213 NW 6th Street, Gainesville, FL 32601
Mailing Address (Please Type)

Florida Registration No. 12925 Date: 8/8/84 Telephone No. (904) 377-5822

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.

A 50 tph fluid-bed lime plant will be constructed in conjunction with the Florida Crushed Stone power plant/cement plant complex. Off-gases from the lime plant will be incorporated in the power plant system as combustion air and to provide lime for sulfur dioxide control. Emissions will ultimately be controlled with a baghouse to a limit more stringent than NSPS for lime plants.

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

Start of Construction November 1984 Completion of Construction October 1986

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.)

\$12,220,000 installed cost of baghouse for cement plant/power plant/lime plant.

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

PA-8217 for power plant and AC27-61016 for cement plant.

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
if power plant, hrs/yr _____; if seasonal, describes: Plant will operate
7884 hours per year

F. If this is a new source or major modification, answer the following questions.
(Yes or No) No - Minor modifications to major emitting facility.

1. Is this source in a non-attainment area for a particular pollutant? NO
 - a. If yes, has "offset" been applied? --
 - b. If yes, has "Lowest Achievable Emission Rate" been applied? --
 - c. If yes, list non-attainment pollutants. --
2. Does best available control technology (BACT) apply to this source? NO
If yes, see Section VI.
3. Does the State "Prevention of Significant Deterioration" (PSD) requirement apply to this source? If yes, see Sections VI and VII. NO
4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? YES HH
5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? NO

- H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? NO
- a. If yes, for what pollutants? _____
 - b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justification 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	Part.Matter	2-3	208,000	A
104 tph limestone = 98.8 tph calcium carbonate and 5.2 tph impurities.				
98.8 tph calcium carbonate = 55.3 tph lime and 43.5 tph carbon dioxide.				
55.3 tph lime = 50 tph product and 5.3 tph lime to power boiler or waste.				

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

1. Total Process Input Rate (lbs/hr): 208,000 (limestone)
2. Product Weight (lbs/hr): 100,000 (lime)

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

Name of Contaminant	Emission ¹		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential Emission ⁴		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Part.Matter	14.3*	56.4	0.03 lb/10 ⁶ BTU	14.3	56,800**	223,900	Stack
SO ₂	26.6 26.6	104.4 220	--	--	58,600 lbs/hr	220,000	Stack
NOx	262*	1033	0.55 lb/10 ⁶ BTU	262	262	1033	Stack

*Based on stated emission limit and a heat input of 467 million BTU/hr; Total emissions from power plant/cement plant/lime plant complex are shown in Attachment 1.
 ** Emissions from Fluid-Bed estimated by Laramore, Douglass & Popham.

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).

$$29,000 \frac{\text{lb}}{\text{hr}} \times \frac{0.75 \frac{\#S}{\#Coal}}{100 \frac{\#S}{\#Coal}} \times \frac{2 \times SO_2}{\#S} = 585 \frac{\text{lb } SO_2}{\text{hr}} \text{ (potential)}$$

$$585 \frac{\text{lb } SO_2}{\text{hr}} \times \frac{7884 \frac{\text{hr}}{\text{yr}}}{2000 \#} = 2,306 \text{ TPY (potential)}$$

@ 90% removal, SO_2 emissions are ~~230.6~~ 230.6 TPY

$$2,306 \text{ TPY potential} \times 0.01 = 23.06 \text{ TPY for each } 1\% \text{ that slips out stack}$$

(99% removal is 23.06 TPY emission)

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)
Baghouse with 1.5 air to cloth ratio	Part. Matter	99.97%	>0.5 um	Estimate
Efficiency of entire system for lime kiln emissions = $(56,800 - 14.3) \times 100 / 56,800 = 99.97\%$				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	lb max./hr	
Coal	36,000	39,000	476.0

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

Fuel Analysis:

Percent Sulfur: 0.75 Percent Ash: 10
 Density: _____ lbs/gal Typical Percent Nitrogen: 1.4
 Heat Capacity: 12,200 BTU/lb _____ BTU/gal
 Other Fuel Contaminants (which may cause air pollution): None

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

Annual Average Not Applicable Maximum _____

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

Ash generated in the lime plant will be used in the cement plant.

Brief description of operating characteristics of control devices: _____

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

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. (See Section III C)
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test). (See Section III C)
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.) (Attachment 2)
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). (See Section III D)
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. (Attachment 3)
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). (See original Florida Crushed Stone Attachment Package)
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. (See original Florida Crushed Stone Attachment Package)

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

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
Particulate Matter	0.6 lb/ton of feed or 62.4 lbs/hr

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
Particulate Matter	0.03 lb/million BTU or 14.3 lbs/hr

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

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

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height:

ft.

b. Diameter:

ft.

c. Flow Rate:

ACFM

d. Temperature:

°F.

e. Velocity:

FPS

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

1.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

2.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

¹Explain method of determining efficiency.

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

j. Applicability to manufacturing processes:

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

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:¹

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:²

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

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

(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

NOT APPLICABLE

A. Company Monitored Data

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

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent? [] Yes [] No
- b. Was instrumentation calibrated in accordance with Department procedures?
[] Yes [] No [] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(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.

INTERNAL AND STACK GAS FLOW RATES AND TEMPERATURES AND
AIR POLLUTANT EMISSION RATES FOR VARIOUS OPERATING CONDITIONS

FLORIDA CRUSHED STONE COMPANY
BROOKSVILLE, FLORIDA

Case	Operating Units ⁽¹⁾	Gas Stream ⁽²⁾						Stack Gas				
		Flow ⁽³⁾ (ACFM)	Temp (°F)	Flow ⁽³⁾ (ACFM)	Temp (°F)	Flow ⁽³⁾ (ACFM)	Temp (°F)	Flow (ACFM)	Temp (°F)	SO ₂ (lb/hr)	NO _x (lb/hr)	P.M. (lb/hr)
1	Power	420,000	330	0	-	0	-	420,000	330	750	846	37.0
2	Power/lime	471,290	355	0	-	0	-	471,290	355	750	846	46.1
3	Power/lime/cement	532,459	403	0	-	159,637	250	692,096	362	800 ⁽¹⁾	1205 ⁽²⁾	86.5 ⁽³⁾
4	Power/lime/cement/dryer	110,380	516	371,704	220	159,637	250	641,721	265	650	1205	86.5
5	Power/lime/dryer	107,710	300	324,198	220	0	-	431,908	238	600	846	46.1
6	Power/cement/dryer	137,508	303	342,020	361	159,637	250	639,243	318	770	1205	86.5
7	Power/cement	489,520	240	0	-	159,637	250	648,757	242	800	1205	86.5
8	Power/dryer	106,289	290	289,255	220	0	-	395,544	237	720	846	37.0
9	Cement	119,000	350	0	-	159,637	250	278,637	290	50	359	49.5

- (1) Power - Power plant @ 125 mw
Lime - Fluid-bed lime kiln @ 50 tph lime
Dryer - Fluid-bed limestone dryer @ 140 tph
Cement - Cement plant @ 75 tph clinker.
- (2) See attached Flow Diagram for identification of gas streams.
- (3) Maximum hourly sulfur dioxide emission rate of 800 lb/hour represents a reduction of 165 lb/hr from presently permitted maximum emission rate.
- (4) Maximum hourly nitric oxides emission rate of 1205 lb/hour represents a reduction of 18 lb/hr from presently permitted maximum emission rate.
- (5) Maximum hourly particulate matter emission rate of 86.5 lb/hour represents no change from presently permitted maximum emission rate.

FABRIC FILTER DATA

Source Lime Plant

Type of Particulate Limestone/flyash

Gas Flow (Acfm) 692,100 max.

Temperature (°F) 242 - 365

Part. Conc. (gr/Acf) 25

Collector Pressure Drop (In. H₂O) 6

Fan Requirement (Hp) 2700

Air/Cloth Ratio (Acfm/ft²) 1.5

Bag Diameter (in.) 12

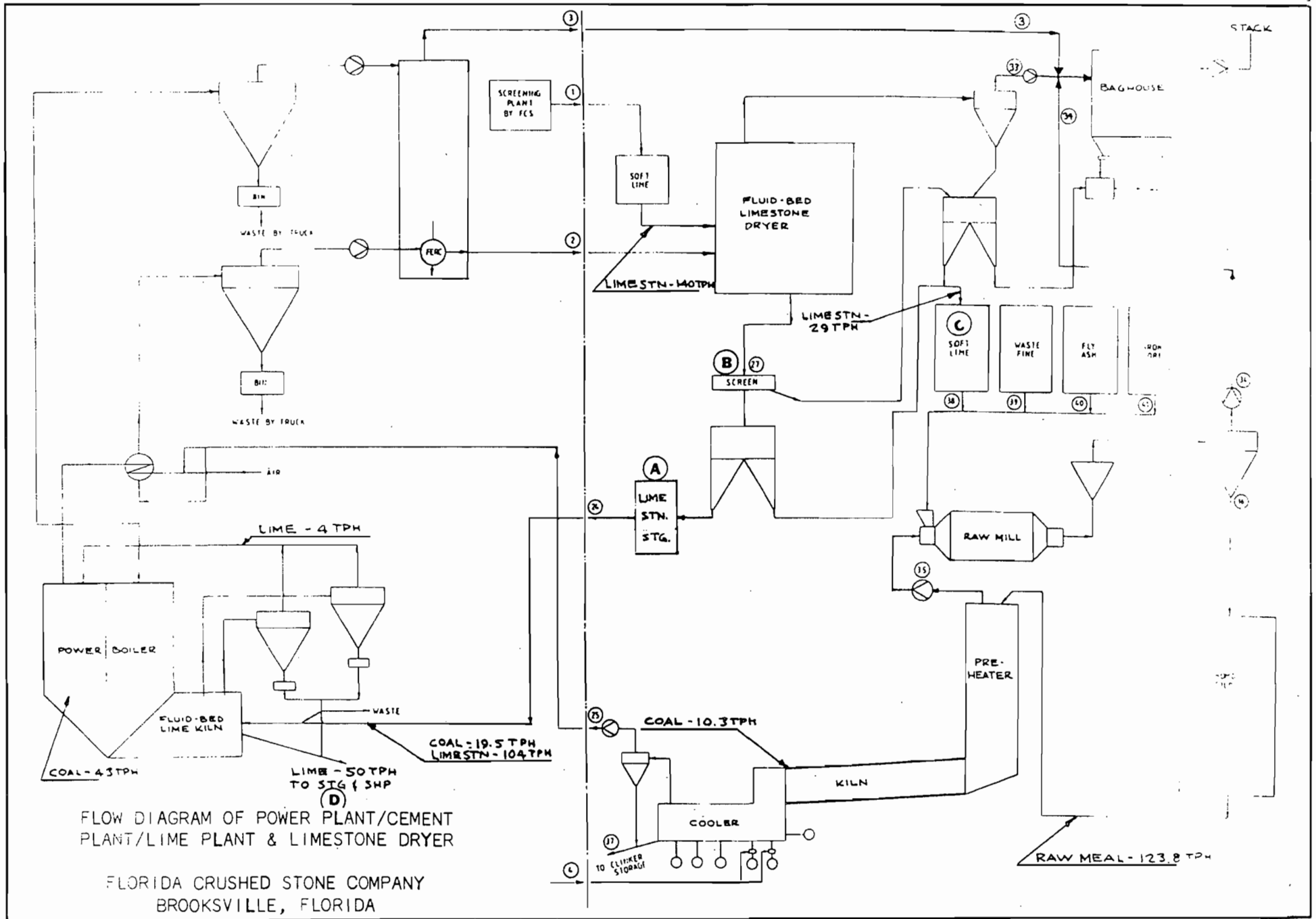
Bag Length (ft.) 37

Number of Bags 3876

Number of Compartments 34

Filter Material Teflon coated fiberglass

Cleaning Method Reverse air; variable cycle



AC 27-091429

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER
DISTRICT

3319 MAGUIRE BOULEVARD
SUITE 232
ORLANDO, FLORIDA 32803



DER

AUG 9 1984

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

ALEX SENKEVICH
DISTRICT MANAGER

BAQM

APPLICATION TO ~~OPERATE~~ CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Limestone Bin for Lime Plant New Existing

APPLICATION TYPE: Construction Operation Modification

COMPANY NAME: Florida Crushed Stone Company 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) Limestone Storage Bin

SOURCE LOCATION: Street Cobb Rd.; 2 mi NW of Brooksville City Brooksville

UTM: East 360.080 km North 3162.010 km

Latitude ° ' "N Longitude ° ' "W

APPLICANT NAME AND TITLE: Browne Gregg, Chairman and CEO

APPLICANT ADDRESS: Post Office Box 317, Leesburg, Florida 32748

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co.

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

*Attach letter of authorization

Signed: *J. Browne Gregg*
Browne Gregg, Chairman and CEO
Name and Title (Please Type)

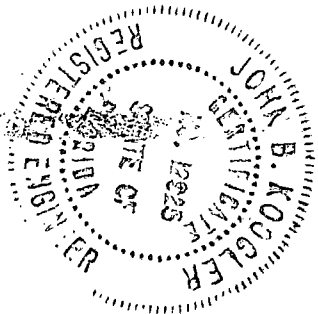
Date: 8/8/84 Telephone No. (904) 787-0608

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 ~~reviewed~~ examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in this permit application. There is reasonable assurance, in my professional judgment, that

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

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



Signed *[Signature]*

John B. Kooqler, Ph.D., P.E.
Name (Please Type)

Sholtes & Kooqler, Environmental Consultants
Company Name (Please Type)

1213 NW 6th Street, Gainesville, FL 32601
Mailing Address (Please Type)

Florida Registration No. 12925 Date: 9/18/84 Telephone No. (904) 377-5822

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.

Baghouse dust collector to vent a limestone storage bin associated with the new lime plant at the Florida Crushed Stone power/cement/lime plant. Particulate emissions will be controlled by a baghouse with a 6.5-1 air to cloth ratio.

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

Start of Construction November 1984 Completion of Construction October 1986

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.)

Installed Cost - \$151,200

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

None

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
if power plant, hrs/yr _____ ; if seasonal, describe: This source will operate
7884 hours per year.

F. If this is a new source or major modification, answer the following questions.
(Yes or No) No - Minor modifications to major emitting facility.

1. Is this source in a non-attainment area for a particular pollutant? NO
a. If yes, has "offset" been applied? --
b. If yes, has "Lowest Achievable Emission Rate" been applied? --
c. If yes, list non-attainment pollutants. ---

2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. NO

3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. NO

4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? 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? _____

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	Part. Matter	2.3	800,000 max	A

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

1. Total Process Input Rate (lbs/hr): 800,000 max. transfer rate
2. Product Weight (lbs/hr): 800,000

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/yr	T/yr	
Part. Matter	1.2*	4.6	17-2.610FAC	1.2	771	3040	Stack
*Based on 0.015 gr/acf.							
Potential Emissions = 9000 cfm x 60 min/hr x (10 gr/acf/7000) lb/ft ³ = 771 lbs/hr							
x 7884/2000							
= 3040 tpy.							

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)
Baghouse with 6.5-1 air to cloth ratio	Part.Matter	99.85%	> 0.5 um	Estimate
Efficiency based on inlet and outlet particulate concentration				
= $(10 - 0.015) \times 100 / 10 = 99.85$				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
None			

*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 NA Maximum _____

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

Fines collected in the baghouse will be returned to the lime plant.

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

Stack Height: 100 ft. Stack Diameter: 2.5 ft.
 Gas Flow Rate: 9000 ACFM 8020 DSCFM Gas Exit Temperature: 120 °F.
 Water Vapor Contents: 2.3 % Velocity: 30.6 FPS

SECTION IV: INCINERATOR INFORMATION

NOT APPLICABLE.

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

Description of Waste _____

Total Weight Incinerated (lb/hr) _____ Design Capacity (lb/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: _____

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

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)]
(As shown in Section III A and B)
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.
(See Attachment 1)
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
(See Section IIIC and Attachment 1)
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.)
(See Attachment 1)
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).
(See Section IIID and Attachment 1)
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.
(Attachment 2)
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).
(Included in original Florida Crushed Stone Attachment package)
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.
(Included in original Florida Crushed Stone Attachment package)

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

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

Not Applicable

- 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 Cost:

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 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:

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. Manufacturers:

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

Not Applicable |

A. Company Monitored Data

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

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

2. Instrumentation, Field and Laboratory

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

b. Was instrumentation calibrated in accordance with Department procedures?

[] Yes [] No [] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(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. Applicant's 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.

FABRIC FILTER DATA

Source Limestone Storage Bin

Type of Particulate Limestone

Gas Flow (Acfm) 9000

Temperature (°F) 120

Part. Conc. (gr/Acf) 10

Collector Pressure Drop (In. H₂O) 11

Fan Requirement (Hp) 30

Air/Cloth Ratio (Acfm/ft²) 6.5

Bag Diameter (in.) 6

Bag Length (ft.) 10

Number of Bags 90

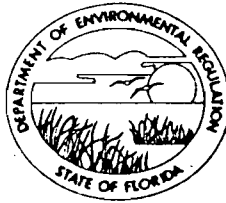
Number of Compartments 1

Filter Material Polyester

Cleaning Method Pulse Jet

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER
DISTRICT
3319 MAGUIRE BOULEVARD
SUITE 232
ORLANDO, FLORIDA 32803



DER

AUG 9 1984

BAQM

BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY
ALEX SENKEVICH
DISTRICT MANAGER

APPLICATION TO ~~OPERATE~~/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Lime Storage Silo New¹ Existing¹

APPLICATION TYPE: Construction Operation Modification

COMPANY NAME: Florida Crushed Stone Company 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) Lime Storage Silo B

SOURCE LOCATION: Street Cobb Rd.; 2 mi NW of Brooksville City Brooksville

UTM: East 360.135 km North 3162.110 km

Latitude ° ' "N Longitude ° ' "W

APPLICANT NAME AND TITLE: Browne Gregg, Chairman and CEO

APPLICANT ADDRESS: Post Office Box 317, Leesburg, Florida 32748

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co.

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

*Attach letter of authorization

Signed: *F. Browne Gregg*

Browne Gregg, Chairman and CEO
Name and Title (Please Type)

Date: 8/8/84 Telephone No. (904)787-0608

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

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

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

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



Signed *[Signature]*
John B. Koogler, Ph.D., P.E.
Name (Please Type)

Sholtes & Koogler, Environmental Consultants
Company Name (Please Type)

1213 NW 6th Street, Gainesville, FL 32601
Mailing Address (Please Type)

Florida Registration No. 12925 Date: 8/8/84 Telephone No. (904) 377-5822

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.

Baghouse to control emissions from a lime storage silo. Maximum transfer rate to the silo will be 50 tph. Particulate emissions will be controlled by a baghouse with a 6.5-1 air to cloth ratio.

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

Start of Construction November 1984 Completion of Construction October 1986

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.)

Installed Cost - \$84,000

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

None

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
 if power plant, hrs/yr _____; if seasonal, describe: This source will operate
7884 hours per year.

F. If this is a new source or major modification, answer the following questions.
 (Yes or No) No - Minor modifications to major emitting facility.

- 1. Is this source in a non-attainment area for a particular pollutant? NO
 - a. If yes, has "offset" been applied? --
 - b. If yes, has "Lowest Achievable Emission Rate" been applied? --
 - c. If yes, list non-attainment pollutants. --
- 2. Does best available control technology (BACT) apply to this source?
 If yes, see Section VI. NO
- 3. Does the State "Prevention of Significant Deterioration" (PSD)
 requirement apply to this source? If yes, see Sections VI and VII. NO
- 4. Do "Standards of Performance for New Stationary Sources" (NSPS)
 apply to this source? 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? _____
 - 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		
Lime	Part. Matter	3-4	100,000	D

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

1. Total Process Input Rate (lbs/hr): 100,000

2. Product Weight (lbs/hr): _____

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

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/yr	T/yr	
Part. Matter	0.6 ⁴ 0.6*	2.4 ³ 2.4	17-2.610FAC	0.6	64	3780	Stack
*Based on 0.015 gr/acf							
Potential Emissions = 5000 acfm x 60 min/hr x (20 gr/acf/7000) = 853 lbs/hr							
x 7884/2000							
= 3780 tpy							

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)
Baghouse with 6.5-1 air to cloth ratio	Part. Matter	99.93%	> 0.5 um	Estimate
Efficiency based on inlet and outlet particulate concentration = $(20 - 0.015) \times 100 / 20 = 99.93\%$				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
None			

*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 Not Applicable Maximum _____

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

Lime will be returned to the silo as product.

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

Stack Height: 200 ft. Stack Diameter: 1.5 ft.
 Gas Flow Rate: 5000 ACFM 4022 DSCFM Gas Exit Temperature: 180 °F.
 Water Vapor Content: 2-3 % Velocity: 47.2 FPS

SECTION IV: INCINERATOR INFORMATION
 NOT APPLICABLE

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

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

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)]
(As shown in Section III A and B)
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.
(See Attachment 1)
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
(See Section IIIC and Attachment 1)
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.)
(See Attachment 1)
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).
(See Section IIID and Attachment 1)
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.
(Attachment 2)
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).
(Included in original Florida Crushed Stone Attachment package)
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.
(Included in original Florida Crushed Stone Attachment package)

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

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

Not Applicable

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

Yes No

Contaminant	Rate or Concentration

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

Yes No

Contaminant	Rate or Concentration

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

Contaminant	Rate or Concentration

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

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

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

a. Heights:

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

(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

Not Applicable

A. Company Monitored Data

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

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

2. Instrumentation, Field and Laboratory

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

b. Was instrumentation calibrated in accordance with Department procedures?

[] Yes [] No [] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. ____ Year(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.

FABRIC FILTER DATA

Source Lime Silo B

Type of Particulate Lime

Gas Flow (Acfm) 5000

Temperature (°F) 180

Part. Conc. (gr/Acf) 20

Collector Pressure Drop (In. H₂O) 10

Fan Requirement (Hp) 20

Air/Cloth Ratio (Acfm/ft²) 6.5

Bag Diameter (in.) 6

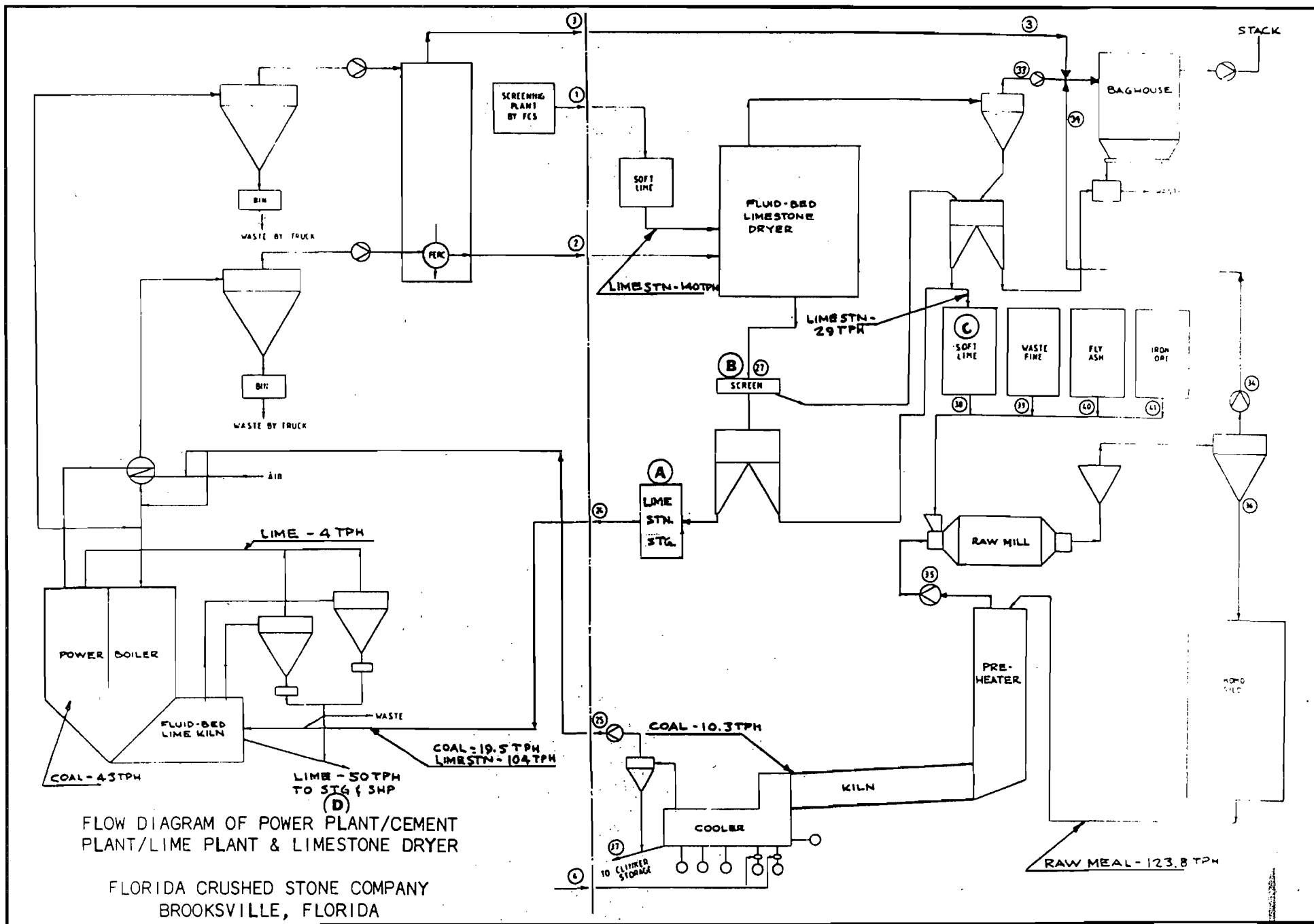
Bag Length (ft.) 10

Number of Bags 60

Number of Compartments 1

Filter Material Polyester

Cleaning Method Pulse Jet



FLOW DIAGRAM OF POWER PLANT/CEMENT PLANT/LIME PLANT & LIMESTONE DRYER

FLORIDA CRUSHED STONE COMPANY
BROOKSVILLE, FLORIDA

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

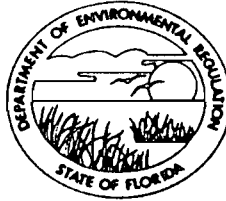
DER

AUG 9 1984

BAQM

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

ALEX SENKEVICH DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Lime Shipping [X] New¹ [] Existing¹

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

COMPANY NAME: Florida Crushed Stone Company COUNTY: Hernando

Identify the specific emission point source(s) addressed in this application (i.e. Lime Discharge & Kila No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Lime Silo Baghouse

SOURCE LOCATION: Street Cobb Rd.; 2 mi. NW of Brooksville City Brooksville

UTM: East 360.135 km North 3162.110 km

Latitude _____ "N Longitude _____ "W

APPLICANT NAME AND TITLE: Browne Gregg, Chairman and CEO

APPLICANT ADDRESS: Post Office Box 317, Leesburg, Florida 32748

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co.

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

*Attach letter of authorization

Signed: [Signature] Browne Gregg, Chairman and CEO Name and Title (Please Type)

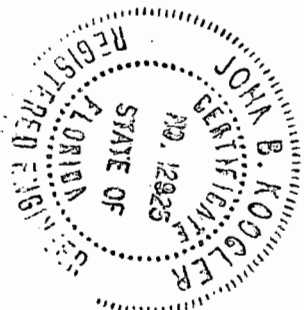
Date: 8/8/84 Telephone No. (904) 787-0608

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

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

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

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



Signed *John B. Koogler*
John B. Koogler, Ph.D., P.E.
Name (Please Type)

Sholtes & Koogler, Environmental Consultants
Company Name (Please Type)
1213 NW 6th Street, Gainesville, FL 32601
Mailing Address (Please Type)

Florida Registration No. 12925 Date: 8/8/84 Telephone No. (904) 377-5822

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.

Baghouse to control emissions from the bulk loading of lime under lime silos. Maximum loadout rate will be 200 tph. Particulate emissions will be controlled by a baghouse with a 6.5-1 air to cloth ratio.

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

Start of Construction November 1984 Completion of Construction October 1986

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.)

Installed cost - \$84,000

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

None

E. Requested permitted equipment operating times: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
 if power plant, hrs/yr _____ ; if seasonal, describe: This source will operate
7620 hours per year

F. If this is a new source or major modification, answer the following questions.
 (Yes or No) No - Minor modifications to major emitting facility.

1. Is this source in a non-attainment area for a particular pollutant? NO
 a. If yes, has "offset" been applied? --
 b. If yes, has "Lowest Achievable Emission Rate" been applied? --
 c. If yes, list non-attainment pollutants. --

2. Does best available control technology (BACT) apply to this source?
 If yes, see Section VI. NO

3. Does the State "Prevention of Significant Deterioration" (PSD)
 requirement apply to this source? If yes, see Sections VI and VII. NO

4. Do "Standards of Performance for New Stationary Sources" (NSPS)
 apply to this source? 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? _____
 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		
Lime	Part.Matter	3-4	400,000	D

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

1. Total Process Input Rate (lbs/hr): 400,000 max. transfer rate
2. Product Weight (lbs/hr): 400,000

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/yr	T/yr	
Part.Matter	0.6*	3.4 2.52	17-2.610FAC	0.6	857	3380	Stack
* Based on 0.015 gr/acf.							
POTENTIAL EMISSIONS - 5000 acfm x 60 min/hr x (20 gr/acf /7000) = 857 lbs/hr							
x 7884/2000							
= 3380 tpy							

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)
Baghouse with 6.5-1 air to cloth ratio.	Part. Matter	99.93%	0.5 um	Estimate
Efficiency based on inlet and outlet particulate concentration				
= $(20 - 0.015) \times 100 / 20 = 99.93\%$				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
None			

*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 Not Applicable Maximum _____

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

Lime will be returned as product.

Brief description of operating characteristics of control devices:

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

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)]
(As shown in Section III A and B)
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.
(See Attachment L)
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
(See Section IIIC and Attachment I)
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.)
(See Attachment I)
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).
(See Section IIID and Attachment I)
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.
(Attachment 2)
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).
(Included in original Florida Crushed Stone Attachment package)
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.
(Included in original Florida Crushed Stone Attachment package)

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

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

Not Applicable

- 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:
3. Efficiency:*

2. Operating Principles:
4. Capital Costs:

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Costs:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters

- a. Height: ft. b. Diameters: ft.
- c. Flow Rates: ACFM d. Temperatures: °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 Devices: b. Operating Principles:
- c. Efficiency:¹ d. Capital Costs:
- e. Useful Life: f. Operating Costs:
- g. Energy:² h. Maintenance Costs:
- 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 Devices: b. Operating Principles:
- c. Efficiency:¹ d. Capital Cost:
- e. Useful Life: f. Operating Costs:
- g. Energy:² h. Maintenance Costs:
- 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

Not Applicable

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).

FABRIC FILTER DATA

Source Lime Silo Discharge

Type of Particulate Lime

Gas Flow (Acfm) 5000

Temperature (°F) 160

Part. Conc. (gr/Acf) 20

Collector Pressure Drop (In. H₂O) 11

Fan Requirement (Hp) 20

Air/Cloth Ratio (Acfm/ft²) 6.5

Bag Diameter (in.) 6

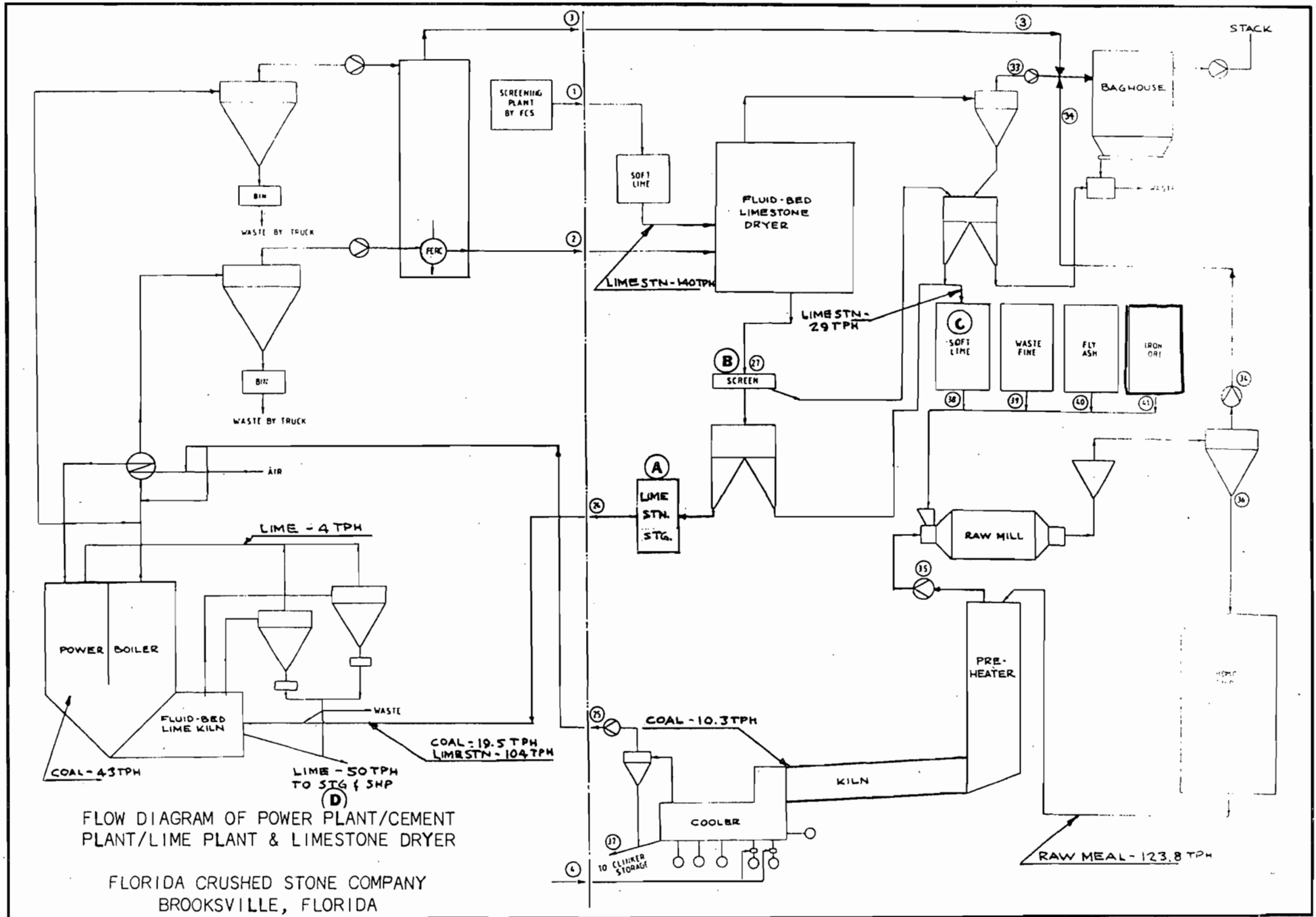
Bag Length (ft.) 10

Number of Bags 50

Number of Compartments 1

Filter Material Polyester

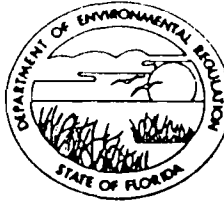
Cleaning Method Pulse Jet



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER
DISTRICT

3319 MAGUIRE BOULEVARD
SUITE 232
ORLANDO, FLORIDA 32803



DER

AUG 9 1984

BAQM

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

ALEX SENKEVICH
DISTRICT MANAGER

APPLICATION TO ~~OPERATE~~/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Lime Storage Silo New¹ Existing¹

APPLICATION TYPE: Construction Operation Modification

COMPANY NAME: Florida Crushed Stone Company COUNTY: Hernando

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

SOURCE LOCATION: Street Cobb Rd.; 2 mi NW of Brooksville City Brooksville

UTM: East 360.135 km North 3162.110 km

Latitude ° ' "N Longitude ° ' "W

APPLICANT NAME AND TITLE: Browne Gregg, Chairman and CEO

APPLICANT ADDRESS: Post Office Box 317, Leesburg, Florida 32748

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida Crushed Stone Co.

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

*Attach letter of authorization

Signed: *F. Brown Gregg*
Browne Gregg, Chairman and CEO
Name and Title (Please Type)

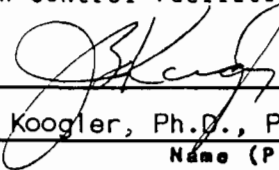
Date: 8/8/84 Telephone No. (904)787-0608

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

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

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

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

Signed 
John B. Koogler, Ph.D., P.E.
Name (Please Type)

Sholtes & Koogler, Environmental Consultants
Company Name (Please Type)

1213 NW 6th Street, Gainesville, FL 32601
Mailing Address (Please Type)

Florida Registration No. 12925 Date: 9/8/84 Telephone No. (904) 377-5822

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.

Baghouse to control emissions from a lime storage silo. Maximum transfer rate to the silo will be 50 tph. Particulate emissions will be controlled by a baghouse with a 6.5-1 air to cloth ratio.

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

Start of Construction November 1984 Completion of Construction October 1986

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.)

Installed Cost - \$84,000

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

None

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
 if power plant, hrs/yr _____ ; if seasonal, describe: This source will operate
7884 hours per year.

F. If this is a new source or major modification, answer the following questions.
 (Yes or No) No - Minor modifications to major emitting facility.

- 1. Is this source in a non-attainment area for a particular pollutant? NO
 - a. If yes, has "offset" been applied? --
 - b. If yes, has "Lowest Achievable Emission Rate" been applied? --
 - c. If yes, list non-attainment pollutants. --

2. Does best available control technology (BACT) apply to this source?
 If yes, see Section VI. NO

3. Does the State "Prevention of Significant Deterioration" (PSD)
 requirement apply to this source? If yes, see Sections VI and VII. NO

4. Do "Standards of Performance for New Stationary Sources" (NSPS)
 apply to this source? 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? _____

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		
Lime	Part. Matter	3-4	100,000	D

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

1. Total Process Input Rate (lbs/hr): 100,000

2. Product Weight (lbs/hr): _____

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

Name of Contaminant	Emission ¹		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Part. Matter	0.64 0.6*	2.53 2.4	17-2.610FAC	0.6	64	3780	Stack
*Based on 0.015 gr/acf							
Potential Emissions = 5000 acfm x 60 min/hr x (20 gr/acf/7000) = 853 lbs/hr							
x 7884/2000							
= 3780 tpy							

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)
Baghouse with 6.5-1 air to cloth ratio	Part. Matter	99.93%	> 0.5 um	Estimate
Efficiency based on Inlet and outlet particulate concentration				
= $(20 - 0.015) \times 100 / 20 = 99.93\%$				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
None			

*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 Not Applicable Maximum _____

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

Lime will be returned to the silo as product.

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

Stack Height: 200 ft. Stack Diameter: 1.5 ft.
 Gas Flow Rate: 5000 ACFM 4022 DSCFM Gas Exit Temperature: 180 °F.
 Water Vapor Content: 2-3 % Velocity: 47.2 FPS

SECTION IV: INCINERATOR INFORMATION
 NOT APPLICABLE

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

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

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)]
(As shown in Section III A and B)
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.
(See Attachment 1)
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
(See Section IIIC and Attachment 1)
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.)
(See Attachment 1)
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).
(See Section IIID and Attachment 1)
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.
(Attachment 2)
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 (Examples: Copy of relevant portion of USGS topographic map).
(Included in original Florida Crushed Stone Attachment package)
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.
(Included in original Florida Crushed Stone Attachment package)

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

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

Not Applicable

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

Yes No

Contaminant

Rate or Concentration

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

Yes No

Contaminant

Rate or Concentration

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

Contaminant

Rate or Concentration

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

1. Control Device/System:

2. Operating Principles:

3. Efficiency:*

4. Capital Costs:

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Costs:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

- a. Heights: ft.
- b. Diameters: ft.
- c. Flow Rates: ACFM
- d. Temperatures: °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 Costs:
- e. Useful Life:
- f. Operating Costs:
- g. Energy:²
- h. Maintenance Costs:
- 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 Costs:
- e. Useful Life:
- f. Operating Costs:
- g. Energy:²
- h. Maintenance Costs:
- 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
_____	_____
_____	_____
_____	_____

(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

Not Applicable

A. Company Monitored Data

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

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent?
 - 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.

FABRIC FILTER DATA

Source Lime Silo A

Type of Particulate Lime

Gas Flow (Acfm) 5000

Temperature (°F) 180

Part. Conc. (gr/Acf) 20

Collector Pressure Drop (In. H₂O) 10

Fan Requirement (Hp) 20

Air/Cloth Ratio (Acfm/ft²) 6.5

Bag Diameter (in.) 6

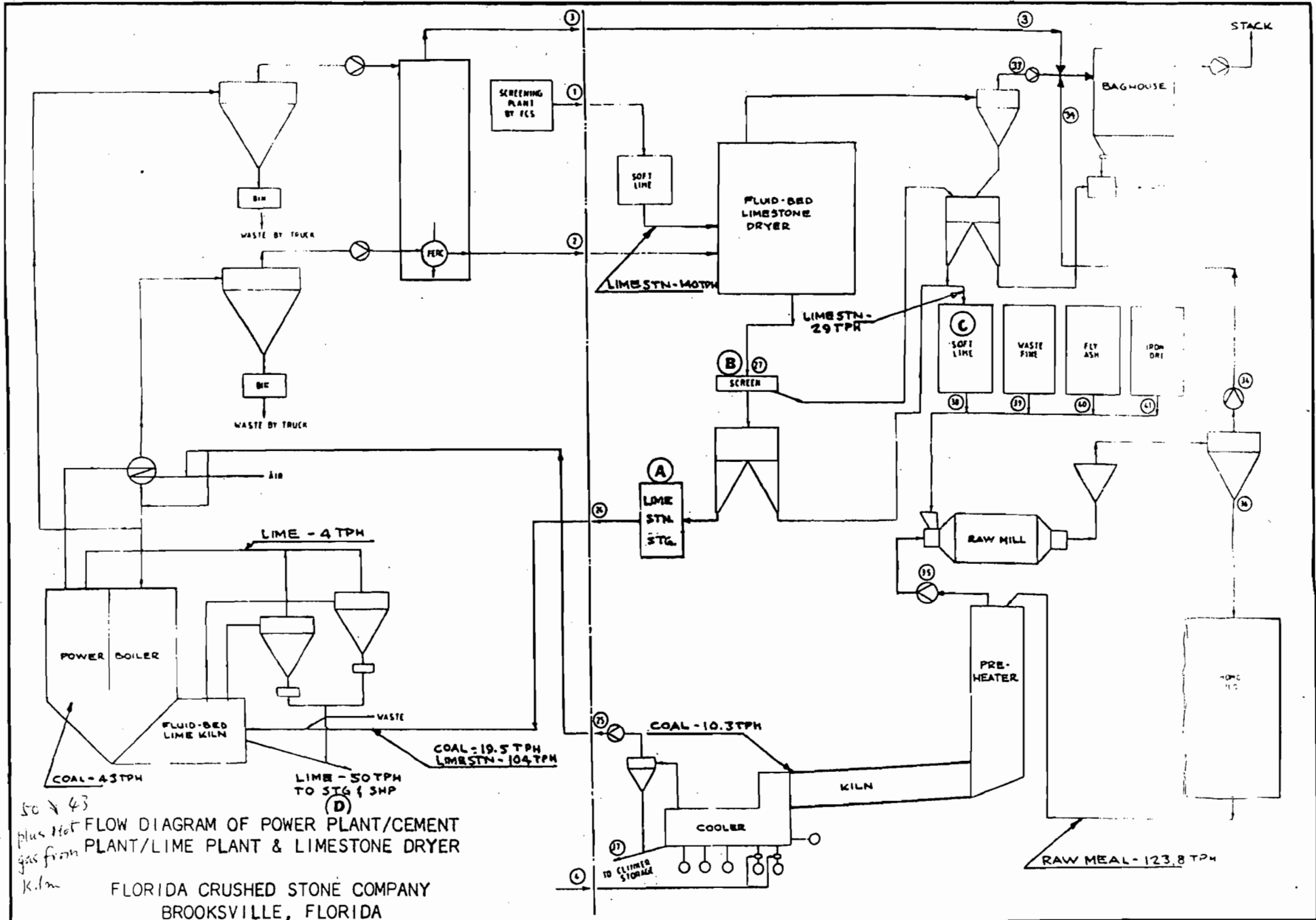
Bag Length (ft.) 10

Number of Bags 60

Number of Compartments 1

Filter Material Polyester

Cleaning Method Pulse Jet



50 & 43
 plus hot gas from
 k.l.m.
 FLOW DIAGRAM OF POWER PLANT/CEMENT
 PLANT/LIME PLANT & LIMESTONE DRYER
 FLORIDA CRUSHED STONE COMPANY
 BROOKSVILLE, FLORIDA