No. 0158674

RECEIPT FOR CERTIFIED MAIL

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

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S	SENDER: Complete item	s 1, 2, 3 and 4.				
Form 3811, July 1983	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.					
98	1. \square Show to whom, date and address of delivery.					
ឌ	2. Restricted Delivery.					
	3. Article Addressed to:					
	Mr. Browne Gregg					
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-	4. Type of Service:	Article Number				
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2	8. Addressee's Address (QNLY if requested and fee paid)					
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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.

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.

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.

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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.

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, 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: AC27-091427

Expiration Date: March 31, 1987

County: Hernando

Latitude/Longitude: 28° 34' 57" N/

82° 25' 50"

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).
- J.B. Koogler's letter, dated August 8, 1984.
- 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.

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.

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.

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.

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 demon-strated 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

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.
- 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.

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.

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.

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.

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

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).
- 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.

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.

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.

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.

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 Wheel ,

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.

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.

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 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.

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
 - () 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.

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.

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

WICTORIA 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:

- 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.

GENERAL CONDITIONS:

Contraction descriptions of the management of the second second of the contract of the contrac

- 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: AC27-091433
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: Permit Number: AC27-091433
Florida Crushed Stone Company 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: Permit Number: AC27-091433
Florida Crushed Stone Company 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:

- 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

MVICTORIA 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		
То:	Loctn.:	
то:	Loctn.:	
To:	Loctn.:	
To: To: From:	Date:	
Reply Optional []	Reply Required []	Info. Only []
Date Due:	Date Due:	

Office of the Secretary

TO: Victoria J. Tschinkel

FROM: Clair Fancy

DATE: March 4, 1985

SUBJ: Approval of Attached Air Construction Permits

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 Hone Permit Number: $4c27 - 091012600 + hough 09127, -29, -30, -33, -33$ PSD Number: County: Permit Engineer: Others involved:
Application: Initial Application Incompleteness Letters Responses Final Application (if applicable) Waiver of Department Action Department Response Other
Intent: Intent to Issue Notice to Public Technical Evaluation BACT Determination Unsigned Permit
Correspondence with: EPA Park Services County Other
Proof of Publication Petitions - (Related to extensions, hearings, etc.) Other
Final Determination: Final Determination Signed Permit BACT Determination Other
Post Permit Correspondence: Extensions Amendments/Modifications Response from EPA Response from County Response from Park Services Other

I halad KKH

P 408 532 071 RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse)

1000 1000/36)	
Sent to Mr. Richard C.	Entori
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 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. 1. Show to whom, date and address of delivery. 2. Restricted Delivery.		
45	3. Article Addressed to: Mr. Richard C. Entorf Florida Crushed Stone Company P. O. Box 300 Leesburg, FL 32749		
	4. Type of Service: ☐ Registered ☐ Insured ☐ COD ☐ Express Mail	Article Number P 408 532 071	
	Always obtain signature of addressee or agent and DATE DELIVERED. 5. Signature - Addressee X 6. Signature - Apent 7. Date of Delivery 8. Addressee's Address (ONLY if requested and fee paid)		
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PS Form 3800, Feb. 1982

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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.

<u>Project:</u> 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



KOOGLER & ASSOCIATES. Environmental Services

33 600 . --

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

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

MITON boug

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

	FOR ROUTING TO OTHER THAN THE ADDRESSEE		
то:		LOCTN:	
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TO: Dale Twachtmann

THRU: Howard L. Rhodes

FROM: Clair Fancy

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.

8-1344 When

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

CHF/MH/s

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* RECEIPT FOR CERTIFIED MAIL

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PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815	DOMESTIC RETURN RECEIPT		



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 SMATLWOOD, P.E.

Director

Division of Air Resources
Management

SS/BM/plm

Attachment

c: B. Thomas, SW Dist.

J. Koogler, P.E., K&A



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,

KOOGLER & ASSOCIATES

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

JBK:wa Enc.

Mr. J. Pennington, FDER-Tallahassee cc:

Mr. David Zell, FDER-Tampa Mr. Tom Mountain, FCS CPL B. in italell

B. Thomas, sw Out





Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-55

Bob Martinez, Governor

Dale Twachtmann, Secretary

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

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DEC 2 4 1990

DER - BAQIVI

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.

Central Power & Lime Brooksville, FL

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



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 that 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 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).



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

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Interoffice Memorandum

TO: Steve Smallwood

FROM: Clair Fancy

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

PERMIT_NO.	MODIFICATION	RATIONALE
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 explicitely 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 Kiin Feed to Kiin 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.	

Add the venting of finish mill silo L-07 to

this system and extend the construction

untli 6/30/87.

AC27-61030



Permit presently includes the

venting of clinker silo L-06.

unchanged.

The vent from Finish Mill Bin L-07 will be added to this system. The size and emissions from the baghouse will remain DEPARTMENT OF ENVIRONMENTAL REGULATION 77-545

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Maher Tanbouz	DATE 11/6/86 PHONE 488-1344
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AC27-61032	Change name from Clinker Silo to Gypsum and Limestone Bins and extend construction permit until 6/30/87.	Permit presently includes veriing 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; increse 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 bag- house 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 slio 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 bln.

Revise Permit AC27-091430 to allow use of bag-

house to control emissions from the Ilmerock

dryer rather than from a lime storage silo.

Lime Shipping Baghouse; no change.

Lime Storage Silo; no change.

AC27-091430

AC27-091432

AC27-091433

SHOLTES A KOOGLER

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

Ilmestone dryer.

New Old 118672 - Filter Dust Bins 161012 -118673 - Slagdah Rin 16/0/3 118674 Cement Plant 161016 -61017 ~ 118675 - Raw Meal Transfer 118676 - Sime Rock Bin - U1019 118677 - Blending Silv - 61020 1186 18 - Film Field Kurge Ben. -61021 118680 - Clinter Handling 118681 + Diller Dust Bin -61026 61041 118683 - Baghouse a-15 C G1042 1.18684 - Cooler discharge 61027 118685 - Frenish Mill Selo L-07 61030 41032 118686 - Gypsum & Timestone Bin 41033 118687 - Silo diechargo 6/037-1186 88 - Denish mill 118649 - Cement Sclo 61038 61040 1.18690 - Cement Silo Baghouse



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

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

Very truly yours,

KOOGLER & 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. mitelell

B. Homas, sw Dist





Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-556

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

Dr. Richard Garrity, Deputy Assistant Secretar

october E2C, Eabov E D

DEC 24 1990

DER - BAQIM

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.

Province Danne

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



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 that 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 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,

YEVE SMALLWOOD, P.E.

firector

Division of Air Resources
Management

SS/BM/t

attachment

cc: B. Thomas, SW District

J. Koogler, P.E., K&A

Best Available Copy



RECEIVAN 25 Mg)
DER-BA

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:

<u>CEMENT PLANT</u> (Florida Crushed Stone Company)

Permit No. Description

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

<u>LIME PLANT</u> (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.

<u>COAL STORAGE</u> (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:
То:	Location:
To:	Location:
From:	Date:

Interoffice Memorandum

TO: Steve Smallwood

FROM: Clair Fancy

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







PN File Copy 18 Nay 1988 Brooksmill FI

FLORIDA CRUSHED STONE COMPANY

CEMENT / POWER / LIME PLANT

May 17, 1988

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

RECEIVED MAY 20 1988 DER. BAQM

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,

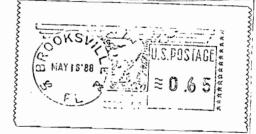
Steven D. Sandbrook Safety & Environmental Manager

SDS/dar

Enclosure: I. 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.

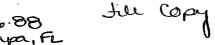


FLORIDA CRUSHED STONE

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









FLORIDA CRUSHED STONE COMPANY

CEMENT / POWER / LIME PLANT

RECEIVED

March 15, 1988

MAR 18 1988

DER - BAOM

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

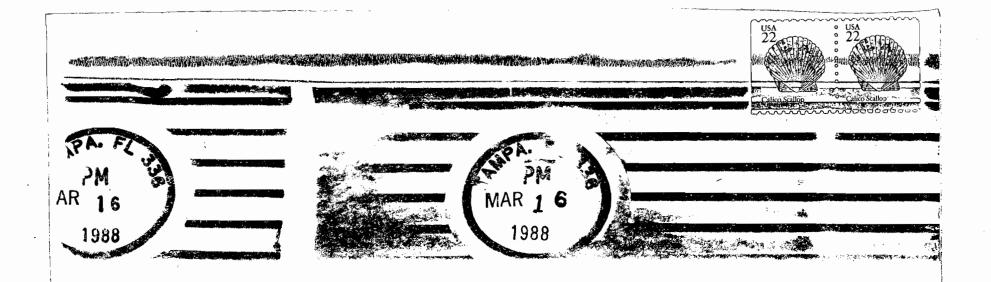
William A. Nelson, FCS

William Thomas, SW District DER

John Koogler, P.E.

copied:

Willord Hanks) CHF |BT | 3.21.88



FLORIDA CRUSHED STONE CEMENT / POWER / LIME DIV.

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

10:

Mr. C.H. Fancy Department of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Rd. Tallahassee, F1. 32399-2400

3.22.88

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.

DEGET VIED

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

CEMENT PLANT AC 27-118672 AC 27-118673 AC 27-118674	filter dust bins fly ash bins 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 AC 27-118688 AC 27-118689 AC 27-118690	silo discharge finish mill cement silo discharge cement silo
LIME PLANT AC 27-091426 AC 27-091427 AC 27-091429 AC 27-091430 AC 27-091432 AC 27-091433	limestone screening limestone fines storage bins lime dust storage bin limestone storage silo B lime shipping baghouse 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:

. S.

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.

Secretary

DT/ks

John B. Koogler, P.E. William C. Thomas, SW District

Fred Crabill, FCS

ATTACHMENT 11



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

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

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, 1 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 AC27-091430 AC27-091427 AC27-091432 AC27-091429 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. The there are any questions regarding this matter, please do not hesitate to contact me.

Very truly yours,

KOOGLER & ASSOCIATES

John B. Kopgter, 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

COPUR Willard Herrbor } 12/1/87

P 274 007 584

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Reverse)

	(See neverse)			
# U.S.G.P.O. 1985-480-794	sMn. Browne Greeg, Florida-Crushed-St Street and No. P.O. Box 317			
P.O. 1	P.O. State and ZIP Code Leesburg, FL 32749			
U.S.G	Postage	S		
# /	Certified Fee			
3	Special Delivery Fee			
	Restricted Delivery Fee			
2	Return Receipt showing to whom and Date Delivered			
e 198	Return Receipt showing to whom, Date, and Address of Delivery			
Jun (TOTAL Postage and Fees	S		
S Form 3800, June 1985	Postmark or Date Cons. Amendment Dt Mailed: 12/14/87 Permits: AC 27-11		87	
PS	80-31, -83-90, 09	1426	•	

PS Form 3811, July 1983 447-845	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.				
83 447-8	1. XX Show to whom, date and address of delivery. 2. A Restricted Delivery.				
145	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: ☐ Flegistered ☐ Insured ☐ Cortified ☐ COD ☐ Express Mail	Article Number P 274 007 584			
	Always obtain signature of addressee or agent and DATE DELIVERED.				
MOD	5. Signature Addressee				
STICI	6. Signature - Agent X Dete of Delivery 1987				
RETUR					
DOMESTIC RETURN REC	8. Addressee's Address (ONLY if requested and fee paid)				

the 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

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.

CEMENT DIANT

Description

	IENI PLANI	
AC	27-118672	filter dust bins *
	27-118673	fly ash bins x
AC	27-118674	cement kiln, clinker cooler,
		dryer and raw mill
AC	27-118675	raw mill transfer x
AC	27-118676	limerock bin 🗸
AC	27-118677	blending silox
AC	27-118678	kiln feed surge bin ^⅓
AC	27-118680	clinker handling x
AC	27-118681	contaminated flyash and filter
		dust bin
AC	27-118683	iron ore binX
AC	27-118684	cooler dischargex
AC	27-118685	clinker silo x
AC	27-118686	gypsum and limestone bins x
		•

Mr. Browne Gregg Page Two December 9, 1987

AC 27-118687 AC 27-118688 AC 27-118689 AC 27-118690	silo discharge x finish mill x cement silo discharge x cement silo x
LIME PLANT AC 27-091426 AC 27-091427 AC 27-091429 AC 27-091430 AC 27-091432 AC 27-091433	limestone screening/ limestone fines storage bins/ lime dust storage bin / limestone storage silo B/ lime shipping baghouse/ 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.

ale Twachtmann

Secretary

DT/ks

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

ATTACHMENT 11

. S



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

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

JAQM

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	AC2Ť-118684
AC27-118674	AC27-118685
AC27-11867 5	AC27-118686
AC27-118676	AC27-118687
AC27-118677	AC27-118688
AC27-118678	AC27-118689
AC27-118680	AC27-118690
AC27-118681	

LIME PLANT

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

KOOGLER & ASSOCIATES

John B. Ko∳g√er, 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

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DEPARTMENT OF ENVIRONMENTAL REGULATION

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State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

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

TO: Dale Twachtmann

THRU: Howard Rhodes

FROM: Clair Fancy Con

DATE: December 9, 1987

SUBJ: Amendment of Construction Permits

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 1 0 1987
BAQM

P-408 531 582

RECEIPT FOR CERTIFIED MAIL

.NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse)

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-32,-33,-117650,-1 -73,-74,-75,-76,-7	18672, 7,-78,-	, 68- 80,
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PS Form 3811, July 1983 447-845	Fred Crabill Florida Crushed Stone Company P.O. Box 300 Leesburg, FL 32749 4. Type of Service: Article Number Registered Insured Certified COD P 408 531 582 Always obtain signature of addressee or agent and DATE DELIVERED.		
845			
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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

DECEIVED APR 7 PREGULATION

FOR POUTING TO OTHER THAN THE ADDRESSEE

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

				To:
TO:	Dale	Twachtmann	/	То:

THRU: Howard L. Rhodes

FROM: Clair Fancy Otto > 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

File Copy

3-26-87 Gaincouille, FL

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

Page 2

AC27-118673 - Fly ash binsAC27-118674 - 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 siio discharge

AC27-118690 - Cement sllo

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

Very truly yours,

KOOGLER & ASSOCIATES

lohn B. Koégier, Ph.D., P.E.

JBK: app

cc: Mr. Dick Entorf Mr. Fred Crabill

B, THOMAS

MITON boug

P 408 532 058 RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse)

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Mr. Browne Gre	egg
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Postage	\$
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S Form 3811, July 1983 447-845	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.		
45	· I		
	Mr. Browne Gregg		
	Florida Crushe	ed Stone Co.	
	P. O. Box 317	22740	
	Leesburg, FL	32/48	
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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 27-091432)

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

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

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:

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

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:

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

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:

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

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

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION



	FOR ROUTING TO OTHER TH	HAN THE ADDRESSEE
To:		LOCTN:
To:		LOCTN:
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FRO	M:	DATE:

TO: Victoria J. Tschinkel

FROM: C. H. Fancy

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

PRS

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 BAOM 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. Oven
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.	Emiss			
		(T/Yr)		(Lb/Hr)	
Limestone Screening Baghouse	AC27-091426	3-0	1.5	0-77	0.4
Limestone Storage Bin	AC27-091427	3-0	9.6	0-77	2.4
Limestone Storage Bin	AC27-091429	4-6	3.2	1-16	0.8
Limestone Storage Silo - B	AC27-091430	2-4	1.5	0-64	0.4
Limestone Silo Discharge and Baghouse	AC27-091432	2-4	<u>5.1</u>	0-64	1.3
Limestone Storage Silo - B	AC27-091433	2-4	2.7	0-64	0.7

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. Oven
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 Certication 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,

Fred Crabill

Environmental Manager

ls

Enclosures

cc: Richard Entorf Lawrence Sellers John Koogler Bill Nelson 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.

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

Very truly yours,

SHOLTES & KOOGLER, ENVIRONMENTAL CONSULTANTS

John B. Koog er, 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

PERMIT NO.	MOD1F1CAT1ON	RATIONALE
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 Bln - 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 explicitely 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.

PERMIT NO.	MODIFICATION	RATIONALE
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 actm. 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 SIIo - 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; increse 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 bag- house Q-15A and baghouse Q-15A will be increased in size from 5000 ACFM to 7400 ACFM.

• .				·
	PERMIT NO.	MODIFICATION	RATIONALE	
	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 slio 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 bag- house to control emissions from the ilmerock dryer rather than from a lime storage silo. Air flow will decrease from 5000 to 3000 acfm and particulate emissions will decrease from	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	

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	There will be a net decrease in particulate mat- presently permitted for the cement/power/lime p year. The change in particulate matter emissions permitted following the PSD review for the cemen (including the presently proposed changes and addition of the lime plant sources) is an increde minimis particulate matter increase is 25	lant complex of 6.3 tons per s from the total emissions nt/power plant complex the increases resulting from the ease of 11.8 tons per year. The

Florida Administrative Code.

DEPARTMENT OF ENVIRONMENTAL REGULATION

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FROM:	010	DATE/29/	86

P 408 533 202

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse)

-	Sent to	
j	Mr. Browne Greg	<u>g</u> -
	Street and No.	
	P.O., State and ZIP Code	•
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	Restricted Delivery Fee	
	Return Receipt Showing to whom and Date Delivered	.:
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زا	Date, and Address of Delivery	
	TOTAL Postage and Fees	\$
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, or it 2000, 1 co.	4/11/86	,

PS Form 3811, July 1983	Put your address in the "RET reverse side. Failure to do this being returned to you. The re you the name of the person delivery. For additional fees to available. Consult postmaster for service(s) requested. 1. Show to whom, date an additional fees to service(s) requested.	URN TO" space on the swill prevent this card from turn receipt fee will provide elivered to and the date of he following services are for fees and check box(es)				
•	Mr. Browne Green Florida Crush Pt. O. Box 317 Leesburg, Florida	ed Stone Co.				
	4. Type of Service: ☐ Registered ☐ Insured ☐ COD ☐ Express Mail	P 408 533 202				
0	Always obtain signature of addressee or agent and DATE DELIVERED. 5. Signature – Addressee					
DOMESTIC RETURN	X 6. Signature - Agent X 92 2 Date of Delivery 15 APR 8. Addressee's Address (ONLY if requested and fee paid)					
RECEI						

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 **DER** APR 11 1986

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

Po: 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

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memo

To: APR 0 1986

To: Loctn: Prom: Office of the Secretary

TO: Victoria J. Tschinkel

FROM: Clair Fancy (In)

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

BOB GRAHAM

VICTORIA J. TSCHINKEL SECRETARY

MAR 1 0 1986

ALEX SENKEVICH DISTRICT MANAGER

BAQM

APPLICATION TO OFERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Ime	stone Screen	ing Baghö	use Cx	New ¹ [] Ex	risting!	i iştə		
APPLICATION TYPE:	[xx] Construc	ction [] Operation	[X] Modific	ation			
COMPANY NAME: Flo	rida Crushed	Stone Co	mpany		COUN	TY: He	nando	
Identify the special Kiln No. 4 with Ve		-			Limes	tone S	Screen	
SOURCE LOCATION:	•			7 ::	-		-	e ·
	UTM: East							
	Latitude	5,59.99	O KIII	ROT CA	7102.	792 N	•	
	Latitude	_`'	'''	Longi	. tude	_`-		''W
APPLICANT NAME AND	TITLE: Brown	ne Gregg,	Chairman a	nd CEO				<u>.</u>
APPLICANT ADDRESS:	Post Office	Box 317,	Leesburg,	Florida 327	48			
A. APPLICANT I am the under I certify that permit are tru I agree to ma facilities in Statutes, and also understan and I will pro establishment. *Attach letter of	the statement e, correct and intain and of such a manner all the rules d that a permoptly notify	its made ind complete operate the second regularity if gother the departments.	n this applie to the bene pollution comply with lations of ranted by other tent upon	ication for st of my kno n control s the provis the department dep	aConstruction account and and at an account at a account	uction and be nd po Chapte revision be no sfer o	lief. llutio er 403 ons th	Further on control, Floridantereof.
*Attach letter of	authorization		· -					
·			Browne	Gregg, Chair me and Title	man and	CEO	·	
						- •		
			Date:	Tel	ephone	No. (90	14) 101	-0000
B. PROFESSIONAL E	NGINEER REGIS	TERED IN	FLORIDA (wh	ere required	by Cha	pter 4	71, F.	.S.)
This is to cer been designed/ principles app permit applica	examined by licable to the	me and f ne treatme	ound to be ent and dis	in conform	ity wit lutants	h mode chara	ern en cteriz	ngineerin ed in the

Page 1 of 12

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

DER Form 17-1.202(1)

Effective October 31, 1982

	Signed
	John B. Koogler, Ph.D., P.E.
STALL STALL	Mame (Please Type)
CATE OF	Sholtes & Koogler, Environmental Consultants Company Name (Please Type)
7 07	1213 NW 6th Street, Gainesville, FL 32601
	Mailing Address (Please Type)
ida Registration No. 12925	Date:
	ON II: GENERAL PROJECT INFORMATION
Baghouse to control part	iculate matter emissions from screens following a 140
limestone dryer. Partic	ulate emissions will be controlled by a baghouse with
6.5-1 air to cloth ratio	
itert of Construction No.	vember 1984 Completion of Construction October 1986 system(a): (Note: Show breakdown of eatimated costs units of the project serving pollution control purposes shall be furnished with the application for operation
Installed cost - \$53,000	
1110141104 0031 #JJ,000	
	·

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

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

	Contam	inente	Utilization	
Description	Туре	X-Wt	Rate - lbs/hr	Relate to Flow Diagram
Dried Limestone	Part.Matter	2-3	280_000	B
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	•			
	· .			

	D	0 - 4 -		11	/ C	C		9 A	• •	۸
D -	rrocess	RALD.	17	applicables	1366	Section V	_	ILAB	1 /	,

1	Total Process Input Rate (1bs/hr	.) :	280,000 max	drying rate	<u> </u>
				,	
2	Bradust Walaht (The/hale		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 Heximum Actual 1/yr	Allowed ² Emission Rate per Rule 17-2	Allowable ³ Emission lbe/hr	Potential ⁴ Emission Ibe/yr	Relate to Flow Diagram
Part Matter	0.4* 1.5	17-2.610FAC	0.4	385 - 1520	Stack
*Based or	n 0.015 gr/acf			the second second	
Potentia	Emissions = 3000	acfm \times 60 m	n/hr x (15 gr	/acf/7000) = ³⁸⁵ lbs	/hr
	***		***	× 7884/20	00
		_		= 1520 _{±c}	· ·

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable atundard.

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

H. Emission Stack	7.0				2.0	
Stack Height:						ft.
Gas Flow Rate: 30						
fater Vapor Conter	1t:2-3	· · ·	× vē	locity:	15.9	FP:
	SECT		INCINERATO NOT APPLI	JR INFORMATI CABLE	CON	
Type of Type (Placti	O Type I (Rubbish)	Type II (Refuse)	Typé IIi (Garbagé)	Type IV (Patholog- ical)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Inciner- ated						
Uncon- trolled (lbs/hr)						2 0 1
•	tě					
otel Weight Incin	erated (lbe/h	r)	per: day ع	Design Cap	wk: <u>In the 2the</u>	wke/yr.
otal Weight Incin pproximate Number anufacturer	erated (lbe/h	r)	per dey ¿	Design Cap	WR : Section Attack	wke/yr ipported the state of th
otal Weight Incin pproximate Number anufacturer	erated (lbe/h	r)	per day	Design Cap dey/ No. Fuel Type	BTU/hr	wks/yr approximately
otal Weight Incin pproximate Number anufacturer ate Constructed _	erated (lbe/h	r)	per day	Design Cap dey/ No. Fuel Type	WR C CONTROL STREET	Temperature
otal Weight Incin pproximate Number anufacturer ate Constructed Primary Chamber	volume (ft)	r)	per day	Design Cap dey/ No. Fuel Type	BTU/hr	Temperature
otal Weight Incin pproximate Number anufacturer ate Constructed Primary Chamber Secondary Chamber	erated (lbe/h of Houre of Volume (ft) ³	r) Operation Heat Re (BTU/	per day	Design Cap day/	BTU/hr	Temperature (*F)
otal Weight Incin pproximate Number anufacturer_ ate Constructed_ Primary Chamber Secondary Chamber tack Height:	Volume (ft)	Heat Re (BTU/	per day	Design Cap day/	BTU/hr Stack To	Temperature (°F)
otal Weight Incin pproximate Number anufacturer ate Constructed Primary Chamber Secondary Chamber tack Height: as Flow Rate:	Volume (ft)3	Heat Re (BTU/	per day	Design Cap dey/ No. Fuel Type DSCFH* t the emiss	BTU/hr Stack To	Temperature (°F)
otal Weight Incin pproximate Number anufacturer ate Constructed Primary Chamber Secondary Chamber tack Height: as Flow Rate: If 50 or more tone ard cubic foot dry	Volume (ft)3	Heat Re (BTU/	per day	Design Cap dey/ No. Fuel Type DSCFH* t the emiss r.	BTU/hr Stack To Velocity: iona rate in	Temperature (°F)
Primary Chamber Secondary Chamber tack Height: as Flow Rate: If 50 or more tone ard cubic foot dry ype of pollution of	Volume (ft)3	Heat Re (BTU/	per day	Design Cap dey/ No. Fuel Type DSCFH* t the emiss .] Wet Scrub	BTU/hr Stack To Velocity: iona rate in	Temperature (°F)

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



DER

BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

> ALEX SENKEVICH DISTRICT MANAGER

MAR 1 0 1986

APPLICATION TO XOPERATE/CONSTRUCT AIR POLICITION SOURCES

SOURCE TYPE: Limestone Fines Bin for Ceme	nt Plant Newl	[] Existing ¹
APPLICATION TYPE: [\times] Construction []	Operation [X] M	odification
COMPANY NAME: Florida Crushed Stone Comp	any	COUNTY: Hernando
Identify the specific emission point source	ce(s) addressed	in this application (i.e. Lime
Kiln No. 4 with Venturi Scrubber; Peaking	Unit No. 2, Gas	Fired) Limestone Storage Bin
SOURCE LOCATION: Street Cobb Rd.; 2 mi N	<u>W_of Brooksvill</u>	e City <u>Brooksville</u>
UTM: East360.000	km	North3162.337 km '
Latitude°'	'''N	Longitude°''W
APPLICANT NAME AND TITLE: Browne Gregg, C	hairman and CEO	<u> </u>
APPLICANT ADDRESS: Post Office Box 317, L	eesburg, Florid	a 32748
SECTION I: STATEMENT	rs by applicant A	AND ENGINEER
A. APPLICANT		
I am the undersigned owner or authoriz	ed representativ	ve* of Florida Crushed Stone Co.
I certify that the statements made in permit are true, correct and complete I agree to maintain and operate the facilities in such a manner as to constatutes, and all the rules and regular also understand that a permit, if grant and I will promptly notify the departmentablishment.	to the best of a pollution contonply with the patients of the departed by the dep	my knowledge and belief. Further rol source and pollution controprovision of Chapter 403, Floridartment and revisions thereof. In artment, will be non-transferable
*Attach letter of authorization	Signed: (Or	riginal Signed)
·	Browne Gregg, Name and	Chairman and CEO Title (Please Type)
	Date:	Telephone No. (904)787-0608
B. PROFESSIONAL ENGINEER REGISTERED IN FL	ORIDA (where red	quired by Chapter 471, F.S.)

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

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

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

pollution sources.		Signed	54
in the second of the second			er, Ph.D., P.E.
322			Ver, Ph.D., P.E. Name (Please Type)
IFIZE IZS		Sholtes & Koo	ogler, Environmental Consultants Company Name (Please Type)
3 6 7 6	•	1017 NO. 611	
13 July 1		1213 NW 6Th 3	Street, Gainesville, FL 32601 Mailing Address (Please Type)
rida Registration No.	12925	Date:	Telephone No. (904) 377-5822
and magnetic transmission was		I: GENERAL PROJE	
Describe the nature	and extent	of the project.	Refer to pollution control equipment, as a result of installation. State
whether the project	will resul	t in full complis	ance. Attach additional sheet if
necessary.			
Baghouse on a lime	estone fin	es storage bin as	ssociated with the cement plant. The
him manaiyan finan			
DIN receives tines	from the	screens following	ng the 140 tph limestone dryer. Partic
			ng the 140 tph limestone dryer. Partic with a 6.5-1 air to cloth ratio.
Emissions will be	controlle	d by a baghouse v	with a 6.5-1 air to cloth ratio.
Emissions will be	controlle	d by a baghouse v	with a 6.5-1 air to cloth ratio.
Emissions will be	covered in	d by a baghouse w	with a 6.5-1 air to cloth ratio.
Emissions will be Schedule of project Start of Construction Costs of pollution componing individual componing to the compo	covered in November ontrol sys	this application or 1984 Compl tem(s): (Note: s of the project	with a 6.5-1 air to cloth ratio. (Construction Permit Application Only etion of Construction October 1986
Emissions will be Schedule of project Start of Construction Costs of pollution comportion individual comportion on actual permit.)	covered in November ontrol systems on the November on the November on the November on the November of the Nove	this application or 1984 Compl tem(s): (Note: s of the project all be furnished	(Construction Permit Application Only etion of Construction October 1986 Show breakdown of estimated costs only serving pollution control purposes.
Emissions will be Schedule of project Start of Construction Costs of pollution comportion individual comportion on actual permit.)	covered in November ontrol systems on the November on the November on the November on the November of the Nove	this application or 1984 Compl tem(s): (Note: s of the project	with a 6.5-1 air to cloth ratio. (Construction Permit Application Only letion of Construction October 1986 Show breakdown of estimated costs only serving pollution control purposes.
Emissions will be Schedule of project Start of Construction Costs of pollution comportion individual comportion on actual permit.)	covered in November ontrol systems on the November on the November on the November on the November of the Nove	this application or 1984 Compl tem(s): (Note: s of the project all be furnished	with a 6.5-1 air to cloth ratio. (Construction Permit Application Only letion of Construction October 1986 Show breakdown of estimated costs only serving pollution control purposes.
Emissions will be Schedule of project Start of Construction Costs of pollution comportion individual comportion on actual permit.)	covered in November ontrol systems on the November on the November on the November on the November of the Nove	this application or 1984 Compl tem(s): (Note: s of the project all be furnished	with a 6.5-1 air to cloth ratio. (Construction Permit Application Only letion of Construction October 1986 Show breakdown of estimated costs only serving pollution control purposes.
Emissions will be Schedule of project Start of Construction Costs of pollution comportion individual comportion on actual permit.)	covered in November ontrol systems on the November on the November on the November on the November of the Nove	this application or 1984 Compl tem(s): (Note: s of the project all be furnished	with a 6.5-1 air to cloth ratio. (Construction Permit Application Only letion of Construction October 1986 Show breakdown of estimated costs only serving pollution control purposes.
Emissions will be Schedule of project Start of Construction Costs of pollution of for individual compoinformation on actual permit.)	covered in November ontrol sys nents/unit l coats sh	this application or 1984 Completem(s): (Note: s of the project all be furnished	with a 6.5-1 air to cloth ratio. (Construction Permit Application Only letion of Construction October 1986 Show breakdown of estimated costs only serving pollution control purposes. with the application for operation
Emissions will be Schedule of project Start of Construction Costs of pollution of for individual composite information on actual permit.)	controlled covered in November ontrol system in November on trol system in November on trolled countrol system in November on trolled countrol system in November on November	this application or 1984 Completem(s): (Note: s of the project all be furnished ost - \$320,000	with a 6.5-1 air to cloth ratio. (Construction Permit Application Only letion of Construction October 1986 Show breakdown of estimated costs only serving pollution control purposes. with the application for operation
Emissions will be Schedule of project Start of Construction Costs of pollution componing individual componing individual componing individual componint.) Indicate any previous point, including personal including personal including personal including personal including inc	controlled covered in November ontrol system in November on trol system in November on trolled countrol system in November on trolled countrol system in November on November	this application or 1984 Completem(s): (Note: s of the project all be furnished ost - \$320,000	with a 6.5-1 air to cloth ratio. (Construction Permit Application Only letion of Construction October 1986 Show breakdown of estimated costs only serving pollution control purposes. with the application for operation

Page 2 of 12

Effective October 31, 1982

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

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

	Contam	inants	Utilization	
Description	Туре	X Wt	Rate - lba/hr	Relate to Flow Diagram
Dried Limestone	Part.Matter	4 - 5	100,000	С
Fines	·			
·				

В.	Process	Rate.	11	applicable:	(See Section	ı V	. Item 1	١
•		naco,	• •	ebbrrcenre.	(200 SACCIO			,

1.	Total Process Input Rate (lbs/hr):	100,000 max.	transfer	rate		
_	Product Weight (lbs/hr):	100.000				
7.	Product Waight (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 Maximum Actual 1bs/hr T/yr	Allowed ² Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission lba/yr	Relate to Flow Diagram
Part.Matter	2.4* 9.6	17-2.610FAC	2.4	2440 - 9625	Stack
* Based on 0.	015 gr/acf				
Potential Emi	ssions =19,000 ac	fm × 60 min/h	r x (15 gr/ac	f/7000) = 2440 lbs/h	r
			· · · · · · · · · · · · · · · · · · ·	× 7884/2000	
				= 9625 _{tpy}	

¹ See Section V, Item 2.

DER Form 17-1.202(1) Effective November 30, 1982

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).

				ft.	Stack Dia	meter	:	<u> </u>	ft.
s Flow R	Rate: 19,0	00	17,470	_DSCFM	Ges Exit	Tempe	rature:	100	•F.
ter Vapo	or Content:	2-3		<u> </u>	Vělocity:			32.9	FP\$
					* change				
		SECT		INCINER PPLICAE	ATOR INFOR	MATIO	IN		
<u> </u>			_	_					
Type of Waste		Type I () (Rubbish)				log-		(Solid	
ctual									
b/hr ciner- ated									
. ,									
Incon- rolled bs/hr)									
	·				Process and an				
criptio	n of Waste								
					. 51.				
al Weig		-							
	ht Inciner	ited (lbs/h	r)		Design	Capa	city (lbs/	/hr)	مرد د د د
roximat	ht Inciner	ited (lbs/h	r) Operation	per da	Design	Capa day/w	city (168)	/hr)wks/yr	nerick and A
roximat	ht Incinera e Number of er	ited (lbs/h	r) Operation	per da	Design	Capa day/w	city (1bs/	/hr)wks/yr.	professional (III) (II) (II) (II) (II) (III) (IIII) (III) (I
roximat	ht Incinera e Number of er	ited (lbs/h	r)	per da	Design	Capa day/w	city (lbs/	/hr)wks/yr:	mente i Tagricia de A
roximat	ht Incinera e Number of er	ited (lbs/h	r)	per da	Design	Capa day/w	city (1bs/	hr) wks/yr:	man de la California de
roximat	ht Incinera e Number of er	ited (lbs/h	r) Operation	per da	Design	Capa day/w	city (1bs/	/hr)wks/yr.₂	man de la California de
roximat ufactur e Const	ht Incinera e Number of er ructed	ted (lbs/h	r) Operation	per da	Design	Capa day/w	city (1bs/	/hr)wks/yr.₂	person da
roximat ufactur e Const	ht Incinerate Number of	ted (lbs/h	r) Operation	per da	Design	Capa day/w	city (1bs/	/hr)wks/yr.₂	person da
roximat ufactur e Const	ht Incinera e Number of er ructed	ted (lbs/h	r) Operation	per da	Design	Capa day/w	city (1bs/	/hr)wks/yr.₂	person da
roximat ufactur e Const imary C	ht Incinerate Number of er	ted (lbs/h	Heat Re (BTU)	Modelease	Design	Capa day/w	city (1bs/k	/hr) wks/yr. Temper (°	eture F)
roximat ufactur e Const imary Cl condary ck Heigl	ht Incinerate Number of er	Volume	Heat Re (BTU)	Modelease	Design	Capa day/w	city (1bs/k) BTU/hr Stack T	Temper (emp.	eture F)
imary Cl condary ck Heigl	ht Incinerate Number of er ructed ructed hamber this ate:	Volume (ft)	Heat Re (BTU)	Modelease	Design No. Type DSCF	Capa day/w	city (1bs/kk	Temper (e	eture F)
roximat ufactur e Const imary Cl condary ck Heigl Flow Ra 50 or a d cubic	ht Incinerate Number of er ructed ructed hamber this ate:	Volume (ft) ft. S	Heat Re (BTU) Stack Diam ACFM ign capaci	Modelease/hr)	Design I No. Type DSC: mit the estair.	Capa day/w Fuel	city (1bs/k) k BTU/hr Stack Telocity:	Temper (e	eture F)

DER Form 17-1.202(1) Effective November 30, 1982

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(1) Revised 2/24/86

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PERMIT NO. AC27-091429

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



MAR 1 0 1986

[\times] New¹ [] Existing¹

GOVERNOO VICTORIA J. TSCHINKEI SECRETARY

ALEX SENKEVICE

DISTRICT MANAGE

COUNTY: Hernando

APPLICATION TO SPERATE/CONSTRUCT AIR POLLUTION SOURCES

Limedust bin for lime plant

COMPANY NAME: Florida Crushed Stone Company

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

r	Identify the specific emission point source		• •	•	
$\bigcirc $	Kiln No. 4 with Venturi Scrubber; Peaking Un	nit No. 2, Gas Fir	red) Limedust	storage b	in
l	SOURCE LOCATION: Street Cobb Road, 2 mile		City_Br		
	UTM: East (17) 360.005 kr	n No:	rth 3162.47	7 km *	
	. Latitude 28 • 34 • 57	_"N Lot	ngitude 82 °	25 • 50	_''W
	APPLICANT NAME AND TITLE: R. Fred Crabill, [<u>Environmental Man</u>	ager		
	APPLICANT ADDRESS: Florida Crushed Stone (Company, P.O. Box	300, Leesbur	g, FL 327	749
	SECTION I: STATEMENTS	BY APPLICANT AND	ENGINEER	•	
	A. APPLICANT				
	I am the undersigned owner or authorized	i representative*	of Florida C	rushed Sto	one C
	-	o the best of my local valuation control of the provious of the department upon sale or 1 R. Fred Crabili Name and Tito Date: 1486	knowledge and source and vision of Chaptment and reviment, will be egal transfer. Environment: Telephone No.	belief. In pollution of the pollution of	cont Flor reof. sferal ermit
	B. PROFESSIONAL ENGINEER REGISTERED IN FLOR	IDA (where requir	red by Chapter	471, F.S.	,)
	This is to certify that the engineering	features of this	pollution con	trol proje	ect h

Page 1 of 12

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

DER Form 17-1.202(1)

Effective October 31, 1982

REVISED 2/24/86

pollution acurces.	
Commence of the second	John B. Koogler, Ph.D., P.E.
3/2 S = 8/5/1	Name (Please Type)
3. KG 5. TIFIC 10. 1292 TATE OF	Shoites & Koogler, Environmental Consultants
9 95 70	Company Name (Flease Type)
37.60	1213 NW 6th Street, Gainesville, FL 32601
\\3	Mailing Address (Please Type)
ida Registration No. 12925	Date: 2/24/86 Telephone No. (904) 377-5822
SECTION	III GENERAL PROJECT INFORMATION
whether the project will res necessary.	n source performance as a result of installation. State sult in full compliance. Attach additional sheet if
	r will vent a lime dust storage bin associated with the
	r will vent a lime dust storage bin associated with the FCS CPL plant. Particulate emissions will be controlle
new lime plant at the f	
new lime plant at the f by a baghouse with a 6. to 6300 acfm.	FCS CPL plant. Particulate emissions will be controlle
new lime plant at the fine by a baghouse with a 6. to 6300 acfm. Schedule of project covered Start of Construction Novem Costs of pollution control afor individual components/un Information on actual costs	in this application (Construction Permit Application On December 1984 Completion of Construction June 1987 System(s): (Note: Show breakdown of estimated costs on this of the project serving pollution control purposes. Shall be furnished with the application for operation
new lime plant at the fine by a baghouse with a 6. to 6300 acfm. Schedule of project covered Start of Construction Novem Costs of pollution control afor individual components/un Information on actual costs permit.)	in this application (Construction Permit Application On December 1984 Completion of Construction June 1987 System(s): (Note: Show breakdown of estimated costs on this of the project serving pollution control purposes. Shall be furnished with the application for operation
new lime plant at the fine by a baghouse with a 6. to 6300 acfm. Schedule of project covered Start of Construction Novem Costs of pollution control afor individual components/un Information on actual costs	in this application (Construction Permit Application On December 1984 Completion of Construction June 1987 System(s): (Note: Show breakdown of estimated costs on this of the project serving pollution control purposes. Shall be furnished with the application for operation
new lime plant at the fine by a baghouse with a 6. to 6300 acfm. Schedule of project covered Start of Construction Novem Costs of pollution control afor individual components/un Information on actual costs permit.)	in this application (Construction Permit Application On December 1984 Completion of Construction June 1987 System(s): (Note: Show breakdown of estimated costs on this of the project serving pollution control purposes. Shall be furnished with the application for operation
new lime plant at the fine by a baghouse with a 6. to 6300 acfm. Schedule of project covered Start of Construction Novem Costs of pollution control afor individual components/un Information on actual costs permit.)	in this application (Construction Permit Application On December 1984 Completion of Construction June 1987 System(s): (Note: Show breakdown of estimated costs on this of the project serving pollution control purposes. Shall be furnished with the application for operation
new lime plant at the fine by a baghouse with a 6. to 6300 acfm. Schedule of project covered Start of Construction Novem Costs of pollution control afor individual components/un Information on actual costs permit.)	in this application (Construction Permit Application On December 1984 Completion of Construction June 1987 System(s): (Note: Show breakdown of estimated costs on this of the project serving pollution control purposes. Shall be furnished with the application for operation
new lime plant at the fine by a baghouse with a 6. to 6300 acfm. Schedule of project covered Start of Construction Novem Costs of pollution control afor individual components/un Information on actual costs permit.) Installed Cost - \$106,0	FCS CPL plant. Particulate emissions will be controlled. 5/1 air/cloth ratio. Reduce baghouse size from 9000 accounts and this application (Construction Permit Application On on 1984

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Đ.

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

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

	Contami	Inants	Utilization	
Description	Type	X-Wt	Rate - lbs/hr	Relate to Flow Diagram
Limestone	Part. Matter	2-3	800,000 max	A
	•			
	·	:		

			•	and the second s				
В.	Process	Rate,	11	applicables	(500	Section Y.	Item :	1)

1	Total Process Input Rate	(1be/hr): 800,000 max	x. tr	ansfer	rate	. 4.	
							 •
2.	Product Weight (1bs/hr):	800,000			13.21.21	*	

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 Maximum Actual T/yr	Allowed Emission Rate per Rule 17-2	Allowable ³ Emigricon lbw/hr	Potential ^A Emission lbe/yr	Relate to Flow Diagrem
Part.Matter	0.8* 3.2	17-2.610FAC	0.8	540 2129	Stack
*Based on 0.0	15 gr/acf.			100 mg 200 mg 100 mg 200 mg	
Potential Em	issions = 6300 cfm	× 60 min/hr	x (10 gr/acf/	7000) b/f+ ³ = 540	s/hr
				× 7884/	2000
				₌ 2129 .	гру.

¹See Section V, Item 2.

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

Calculated from operating rate and applicable standard.

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

		100					2 =	
						ter:		
						mperature:		•F
ater Vapor	Content:	2.3		×	Vělocity: _	21.	. 4	FP
		CERT	70W TV.	THETHER	ATOR INFORMA	ŤTOM		
		32.01			BLE	ILLUM		
· .T				l '-				
Type of Waste (Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type (Garba	III Type IV gé) (Patholo ical)	Type V (Liq.& Ga By-prod.	s (Solid By	VI -prod.)
Actual lb/hr Inciner- ated								•. •
Uncon- trolled (lbs/hr)								
escription							- •	:
enu facturer		<u></u>	Operation	per dey	de	épecity (16e y/wR:	wks/yr.ze	un faith
enu facturer		<u></u>	Operation	per dey	de	y/wk: <u> </u>	wke/yr app	um fueste.
mufacturer		<u></u>	Operation	per day	i No.	y/wk:	wke/yr .ze	and the state of t
anufacturer	ctéd	Value	Operation	per day	1 No.	y/wk:	wks/yr.	and the state of t
nufacturer te Constru	eted	Value	Operation	per day	1 No.	y/wk:	wks/yr.	and the state of t
rimary Cha	mber	Volume (ft) ³	Heat R	Hode	I No.	y/wkan	Temperati	Pro derie
Primary Cha	mber	Volume (ft) ³	Heat R (BTU	Hode	I No.	el BTU/hr	Temperate (*F)	Pro derie
Primary Character Condary Cond	mber hamber	Volume (ft) ³	Heat R (BTU	Hode	Type DSCFN	el BTU/hr Stack	Temperate (*F)	ure FPS
Primary Charcondary Cack Height	mber hamber	Yolume (ft) ³ ft. S	Heat R (BTU	Hode	Type DSCFM mit the emi	el BTU/hr	Temperate (*F)	ure FPS
Primary Charack Height as Flow Rate of Subject of Cubic forms	mber hamber : e: re tone p	ft. S or day desi	Heat R (BTU	Hode	Type DSCFM mit the emi	el BTU/hr Stack	Temperate (*F)	ure FPS
Primary Charack Height The Flow Rate To be and cubic for	mber hamber : e: re tone p	ft. S or day desi	Heat R (BTU	Hode elease /hr) ater: ity, sub excess yclone	Type DSCFM mit the emi	el BTU/hr Stack Velocity:	Temperate (*F)	ure FPS
Primary Character Construction	mber hamber i e: re tone poot dry g	ft. S or day desi as correcte trol device	Heat R (BTU) ACFH gn capac d to 50%	Hode elease /hr) ater: ity, sub excess yclone	Type Type DSCFM mit the emi eir. [] Wet Scr ecify)	el BTU/hr Stack Velocity:	Temperate (*F)	FPS stan-
Primary Charack Height ack Height ack Height ack Flow Rate f 50 or month of cubic for the cubic	mber hamber i e: re tone poot dry g	ft. S or day desi as correcte trol device	Heat R (BTU) ACFH gn capac d to 50%	Mode	Type Type DSCFM mit the emi air. [] Wet Scr ecify)	el BTU/hr Stack Velocity:	Temperate (*F)	ure FPS
enufacturer ete Constru Primary Cha Secondary C tack Height as Flow Rate If 50 or mo	mber hamber i e: re tone poot dry g	ft. S or day desi as correcte trol device	Heat R (BTU) ACFH gn capac d to 50%	Mode elease hr) ater: ity, sub excess yclone ther (sp	Type Type DSCFM mit the emi air. [] Wet Scr ecify)	el BTU/hr Stack Velocity:	Temperate (*F)	and fundamental states of the

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PERMIT NO. AC27-091430

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



DER

BOB GRAHA

MAR 1 0 1986

VICTORIA J. TSCHINKE SECRETAR

ALEX SENKEVIC DISTRICT MANAGE

BAQM

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

\mathfrak{a}	SOURCE TYPE: Limerock Dryer Discharge [X] New [] Existing [
	APPLICATION TYPE: [x] Construction [] Operation [X] Modification
	COMPANY NAME: Florida Crushed Stone Company COUNTY: Hernando
0	Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired)
'	SOURCE 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
	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. Furth 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, Flor 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-transfer 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: 272/BC 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 h

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

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

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Page 1 of 12

REVISED 2/24/86

pollution sources.	Signed
No. apprehenses	John B./Koogler,/Ph.D., P.E.
3 5 6 3 6 7	Name (Please Type)
O. IS	Sholtes & Koogler, Environmental Consultants
29 8 5 5	Company Name (Flease Type)
	1213 NW 6th Street, Gainesville, FL 32601 Mailing Address (Please Type)
ida Registration No. 1292	5 Date: 3/7/86 Telephone No. (904) 377-5822
	N II: GENERAL PROJECT INFORMATION
and expected improvements in whether the project will renecessary.	n source performance as a result of installation. State sult in full compliance. Attach additional sheet if
Revise Permit No. AC27	-019430 to use baghouse to control emissions as limerock
discharged from the li	merock dryer to conveyor belt rather than from a lime silo
The size of the baghou	se and emissions from the baghouse will be reduced and
the baghouse will oper	ate in full compliance.
Schedule of project covered	in this application (Construction Permit Application Only)
	mber 1984 Completion of Construction _June 1987
for individual components/us	system(a): (Note: Show breakdown of estimated costs only nits of the project serving pollution control purposes. shall be furnished with the application for operation \$50,000
point, including permit issu	ermits, orders and notices associated with the emission uance and expiration dates. issued 3/5/85 and expiring 3/31/87.
Form 17-1.202(1) ctive October 31, 1982	Page 2 of 12

(1) REVISED 2/24/86

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

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

		Contam	inants	Utilization	
1	Description	Type	% Wt	Rate - lbe/hr	Relate to Flow Diagram
0	Limerock	Part.Matter	2-3	280,000	E
1					

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

0	1.	Total Process Input Rate (1bs/hr):	280,000	
_	2.	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	Emiss	ionl	Allowed ² Emission Rate per	Allowable ³ Emission	Potent Emiss		Relate to Flow
Conteminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/yr	T/yr	Diegram
Part. Matter	0.4	1.5	17-2.610	0.4	514*	2027*	F
Emissions = 3	,000 ACFM	× 0.015	gr/ACF x 60	min/hr x 1/700	0 - 0.4 lb	/hr	
		-	× 7884	/2000	= 1.5 tp	У	
* Based on inle	t loading	of 20 g	ains/ACF				

¹See Section V, Item 2.

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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.

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

							5
Gas Flow Rats	3,00	<u>0</u> асғн	2410	_DSCFM G	ss Exit Tam	erature:	180
Water Vapor C	antent:	2-3	_	% Vo	elocity:	28.3	
		SECT	ION IV:	INCINERATO	DR INFORMAT	TON	
Type of Waste (P	Type 0	Type I (Rubbish)	Type II (Refuse)	Type II: (Garbage	I Type IV) (Patholog- ical)	Type V - (Liq.& Gas By-prod.)	Type VI Solid By-pro
Actual lb/hr Inciner- ated							
Uncon- trolled (lbs/hr)							
Approximate N	Incinera	ted (lbs/h	r) Operation	per day _	day,		/hr)
Total Weight Approximate N Manufacturer_	Incinera	ted (lbs/h	r)	per day _	day,	/wk	wks/yr
Total Weight Approximate N Manufacturer_	Incinera	ted (lbs/h	r)	per day _	day,	/wk	
Total Weight Approximate N Manufacturer_	Incinera	ted (lbs/h	r) Operation	per dayModel	day,	/wk	wks/yr
Total Weight Approximate N Manufacturer_	Incinera umber of	ted (lbs/h Hours of	r) Operation	per dayModel	No	/wk	Temperature
Total Weight Approximate N Manufacturer_ Date Construe	Incinera umber of	ted (lbs/h Hours of	r) Operation	per dayModel	No	/wk	Temperature
Total Weight Approximate N Manufacturer_ Date Construe Primary Cham Secondary Ch	Incinera umber of	Hours of Volume (ft)	Operation Heat R (BTU	per dayModel	No	BTU/hr	Temperature
Total Weight Approximate N Henufacturer_ Date Construc Primary Cham Secondary Ch Stack Height:	Incinera umber of	Volume (ft)	r)	per dayModel elease/hr)	No	BTU/hr Stack 1	Temperature (°F)
Total Weight Approximate N Hanufacturer_ Date Construe Primary Cham Secondary Ch Stack Height: Gas Flow Rate	Incinera umber of ted ber amber	Volume (ft)3 ft.	Heat R (BTU	per dayModel elease /hr) ater:	No DSCFM*	BTU/hr Stack I	Temperature (°F)
Total Weight Approximate N Henufacturer_ Date Construc Primary Cham Secondary Ch Stack Height: Gas Flow Rate	Incinera umber of ted ber amber	Volume (ft) ft.	Heat R (BTU	per dayModel elease /hr) ater: ity, submitexcess si	No DSCFM*	Stack T	Temperature (°F)

REVISED 2/24/86

Telephone No. (904)787-0608

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



DER

BOB GRAHAM GOVERNOR

MAR 1 0 1986

VICTORIA J. TSCHINKEL SECRETARY

> ALEX SENKEVICH DISTRICT MANAGER

BAQM

APPLICATION TO OPERCADE/CONSTRUCT AIR POLLUTION SOURCES
SOURCE TYPE: Lime Shipping [X] New [] Existing [
APPLICATION TYPE: $[\chi]$ Construction $[\]$ Operation $[\chi]$ 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, Florid 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: (Original Signed)
Browne Gregg, Chairman and CEO Name and Title (Please Type)

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 hav been designed/examined by me and found to be in conformity with modern engineerin principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

Date:

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

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

pollution s	ources.	Signed	QV4
وأوار والمرازين المرازين	read to the	John B. (Ko	øgler, Ph.D., P.E.
STA ATS	0	,	(Mame (Please Type)
TATE OF	177	Sholfes &	Koogler, Environmental Consultants Company Name (Please Type)
기 기 위	5,20	1213 NW 6t	h Street, Gainesville, FL 32601
160			Mailing Address (Please Type)
orida Registr	ition No. 12925	Date:	Telephone No. (904) 377-5822
•	SECTION	II. CENERAL PR	OJECT INFORMATION
necessary.	_		liance. Attach additional sheet if
Badhouse to	n control emission	s from the hul	k loading of lime under lime silos. Maxim
Baghouse To	control emission	ns from the bul	k loading of lime under lime silos. Maxim
			k loading of lime under lime silos. Maximemissions will be controlled by a baghous
loadout ra		n. Particulate	
loadout ra	te will be 200 tph	n. Particulate	
loadout rawith a 6.5	te will be 200 tph 5-1 air to cloth r	n. Particulate ratio.	
with a 6.5	te will be 200 tph 5-1 air to cloth r	n. Particulate ratio. n this applicat	emissions will be controlled by a baghous ion (Construction Permit Application Only)
loadout rate with a 6.5 Schedule of Start of Corton Costs of polyfor individual	project covered in the struction November lution control system of the struction of the struction of the struction control system of the struction control sys	n. Particulate ratio. n this applicat per 1984 Co stem(s): (Note	emissions will be controlled by a baghous
Schedule of Start of Cor Costs of pol for individe Information	project covered in the struction November lution control system actual costs at	n. Particulate ratio. n this applicat per 1984 Co stem(s): (Note	emissions will be controlled by a baghous ion (Construction Permit Application Only) mpletion of Construction October 1986 : Show breakdown of estimated costs only ct serving pollution control purposes. ed with the application for operation
Nondout rate with a 6.5 Schedule of Start of Cortosts of polifor individual Information	project covered in the struction November lution control system actual costs at	n. Particulate ratio. n this applicat per 1984 Costem(s): (Note ts of the projectal) be furnish	emissions will be controlled by a baghous ion (Construction Permit Application Only) mpletion of Construction October 1986 : Show breakdown of estimated costs only ct serving pollution control purposes. ed with the application for operation
Nondout rate with a 6.5 Schedule of Start of Cortosts of polifor individual Information	project covered in the struction November lution control system actual costs at	n. Particulate ratio. n this applicat per 1984 Costem(s): (Note ts of the projectal) be furnish	emissions will be controlled by a baghous ion (Construction Permit Application Only) mpletion of Construction October 1986 : Show breakdown of estimated costs only ct serving pollution control purposes. ed with the application for operation
Nondout rate with a 6.5 Schedule of Start of Cortosts of polifor individual Information	project covered in the struction November lution control system actual costs at	n. Particulate ratio. n this applicat per 1984 Costem(s): (Note ts of the projectal) be furnish	emissions will be controlled by a baghous ion (Construction Permit Application Only) mpletion of Construction October 1986 : Show breakdown of estimated costs only ct serving pollution control purposes. ed with the application for operation

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

В.

С.

D.

Page 2 of 12

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

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

	Contam	inants	Utilization			
Description	Туре	% Wt	Rate - lbs/hr	Relate to Flow Diagram		
Lime	Part.Matter	3-4	400,000	D		
	·	_				
	·					

в.	Process	Rate,	if	applicable:	(See Section	٧,	Item 1)	
				1				

1	Total Process	Input Rate	(lbs/hr):	400,000	max.	transfer	rate	
,	Product Walabi	+ /1ha/hala		400,000			·	

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

Name of	Emission ¹		Allowed ² Emission Rate per	Allowable ³ Emission	Potenti Emissi	Relate to Flow	
Conteminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/yr	T/yr	Diagram
Part.Matter	1.3*	5.1	17-2.610FAC	1.3	1714	6756	Stack
* Based on 0.	015 gr/acf						
Potential Emi	ssions =10	,000 acf	m × 60 min/h	r x (20_gr/acf	/7000)= 171	4 lb/hr	
					× 788	34/2000	
					= 675	56 †py	

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 atandard.

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

					Stack Di				f1
as Flow F	Rate: 10,00	O ACFH_	8300	_DSCFM	Gas Exit	Temp			
eter Vepo	r Content:	2-3		x	Vėlocity	/:	41.9		F
		SECT	IGN IV: Not A	INCINERA APPLICAB		RMATI			
Type of Waete		Type I) (Rubbish)	Type II (Refuse)	Type (Garba	gé) (Path	IV nolog- nal)	Type V (Liq.& Gas By-prod.)	(Solid	e VI By-prod.)
Actual lb/hr nciner- ated									:
Uncon- trolled lbs/hr)									
tal Weig	ht Inciner	ated (lbs/h	r)		Desig	n Cap	acity (lbs/	hr)	
proximat	e Number o	ated (1bs/h	r)	per day	/ <u></u>	day/	wk <u></u>	wks/yr.	ere e
proximat inufactur	e Number o	f Hours of (r)	per day	/ <u></u>	day/	wk <u>/ </u>	wks/yr.	and the second of the second o
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proximat nufactur te Const	e Number o	Volume	r) Dperation	per day	ol No	day/	wk	wks/yr	ature
proximat nufactur te Const rimary C	e Number of	Volume	Heat R	Mode	Type	fuel	BTU/hr	Temper	àture
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proximat nufactur te Const rimary C econdary ack Heigi s Flow Re	e Number of er	Volume (ft)3	Heat Ro (BTU,	Mode	Type DS	Fuel CFM+	BTU/hr Stack Towelocity:	Temper	àture (F)
proximat nufactur te Const rimary C econdary ack Heigi s flow Re f 50 or a rd cubic ne of po	e Number of	Volume (ft) S	Heat R (BTU) ACFM Ign capacid to 50%	Mode elease /hr) ity, sub excess yclone	Type DSomit the eir.	Fuel CFM* comiss:	BTU/hr Stack T Velocity: Lons rate in	Temper (e	àture F)

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



DER

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

> ALEX SENKEVICH DISTRICT MANAGER

MAR 1 0 1986

BAOM

APPLICATION TO OFFERATE/CONSTRUCT AIR POLLUTION SOURCES

SOU	RCE TYPE: Lime Storage Silo	[×] New ^l [] Existing ^l
	LICATION TYPE: $[\times]$ Construction $[\]$ Open	
сом	PANY NAME: Florida Crushed Stone Compar	COUNTY: Hernando
Ide	ntify the specific emission point source	(s) addressed in this application (i.e. Lime
Kilt	n No. 4 with Venturi Scrubber; Peaking U	nit No. 2, Gas Fired) Lime Storage Silo A
sou	RCE LOCATION: Street Cobb Rd.; 2 mi NW	of Brooksville City Brooksville
	UTM: East 360.135 km	North 3162.110 km
	Latitude * *	"N Longitude ' 'W
APPI	LICANT NAME AND TITLE: Browne Gregg, Cha	irman and CEO
AP PI	LICANT ADDRESS: Post Office Box 317, Lee	sburg, Florida 32748
	SECTION I: STATEMENTS	BY APPLICANT AND ENGINEER
Α.	APPLICANT	
	I am the undersigned owner or authorized	representative* of Florida Crushed Stone Co.
	I agree to maintain and operate the pfacilities in such a manner as to comp Statutes, and all the rules and regulati also understand that a permit, if grant	is application for a Construction the best of my knowledge and belief. Further ollution control source and pollution controlly with the provision of Chapter 403, Florid cons of the department and revisions thereof. ed by the department, will be non-transferable upon sale or legal transfer of the permitter
*Att	ach letter of authorization	igned:(Original Signed)
	_	Browne Gregg, Chairman and CEO
		Name and Title (Please Type)
	I	Pate: Telephone No(904)787-0608
В.	PROFESSIONAL ENGINEER REGISTERED IN FLOR	IDA (where required by Chapter 471, F.S.)
		features of this pollution control project have to be in conformity with modern engineerin

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

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principles applicable to the treatment and disposal of pollutants characterized in th permit application. There is reasonable assurance, in my professional judgment, that

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

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

	Contami	lnants	Utilization	
Description	Туре	~- % Wt	Rate - lbs/hr	Relate to Flow Diagram
Lime	Part. Matter	3-4	100.000	D
		,		
	•			
			1	

8. Process Rate, if applicable: (See Section V, Item 1	8.	Process	Rate,	15	applicable:	(500	Section	٧.	Item	1
--	----	---------	-------	----	-------------	------	---------	----	------	---

1 10	otal Pro	cess In	put Rata	(lbe/hr):	100,000	
------	----------	---------	----------	-----------	---------	--

2.	Product Weight	(lba/hr):	1		•

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

Name of Contaminant	Emission ¹	Allowed ² Emission Rate per	Allowable ³ Emission	Potentis Emissio	Relate to Flow	
	Maximum Actual 1be/hr T/yr		lbs/hr	lbs/yr	T/yr	Diegram
Part.Matter	0.7*2.7	17-2.610FAC	0.7	904	3564	Stack
*Based on 0.	015 gr/acf					
Potential Em	issions = 5300 act	m × 60 min/h	x (20 gr/acf	/7000) = 904	lbs/hr	,
				× 7884	1/2000	
				= 3564	- tpy	

¹ See Section V, Item 2.

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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 hest input)

Calculated from operating rate and applicable standard.

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

	ght:	200		ft.	Stack Dia	meter	1.5		f
ies Flow R	Rate:5	00ACFH_	4260	_DSCFH	Gan Exit	Tempe	rature:	180	•
later Vapo	r Conten	2-3	;	x	Vėlocity:	_	50	.0	F
			<u> </u>	 	·				
		SECT		INCINERA PPLICAB	ATOR INFOR	MATIO	N		
•	_	<u> </u>	1 NO1 X						
Type of Waste		Type I s) (Rubbish)	Type II (Refuse)	Type :	III Type ge) (Patho ica	log-	Type V (Liq.& Ga By-prod.	s (Solid	pe VI By-prod.
Actual 1b/hr Inciner- atad									
Uncon- trolled (1be/hr)								,	
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e e ce la fi à	o of Heat					<u>. </u>			
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otel Weig	ht Incine	rated (16s/h	r)		Design	Cepe	city (lbs	/he)	
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stal Weig proximat inufactur	ht Incine Number er ructed	rated (166/h	r)	per dey	Daeign	Cepe day/w	city (lbs	/hr)wks/yr.	September 1981 1981 1981 1981 1981 1981 1981 198
otal Weig oproximat nufactur ita Conat	ht Incine Number er ructed	rated (166/h	r)	per dey	Daeign	Cepe day/w	city (lbs	/hr)wks/yr.	reture
proximation of the Constitute Con	ht Incine Number er ructed hamber	rated (16s/h of Hours of Volume (ft)	r)	per dey	Daeign	Cepe day/w	city (lbs	/hr)wks/yr.	ráturo
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rimary C: scondary ack Heights Flow Ra	ht Incine Number er ructed Chamber ht: ate: nore tone foot dry	Volume (ft)3	Heat Re (BTU) Stack Diam ACFH ign capacied to 50%	Mode	Dasign I No. Type DSCF	Cepe iny/w	BTU/hr Stack	/hr)wks/yr.	reture •F)

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Effective November 30, 1982

1 Revised 2/24/86



FLORIDA CRUSHED STONE COMPANY

DER

February 12, 1985

FFB 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

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 theCourt
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.
Kingman Star owners
Raymond K. Mooney, General Manager, The Sun-Journal
Sworn to and subscribed before me this 2
NOTARY MIRLIC STATE OF FLORIDA
MY COMMESSION EXPIRES AUG 6 1986 CIBONDED BRU GENERAL INS . UNDERWRITERS
Notary Public
Filed 19 , at O'clock M. and Recorded in Book No ,
Page
Record Verified
Clerk, Court, Hernando County, Fla.

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

Department of vironmental 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 inorthwest 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 per-mitting decision may petition for an administrative proceeding (hearing) in ac-cordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, amd 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 tite 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 tormulate agency: action. Accordingly, the Department's tinal 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, tive. (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 I 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 tor 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.

Regulation

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 Bureau of Air Quality determination. , PUBLISH: Jan. 22, 1985

P 408 532 043 RECEIPT FOR CERTIFIED MAIL

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

(See Reverse)

	_
Sent to	
Mr. Fred Crabil	Ĺ1
Street and No.	•
°t	<u> </u>
P.O., State and ZIP Code	· ·
Postage	\$
Cortified Fee	
7	
Special Delivery Fee	
Restricted Delivery Fee	
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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	
5	
0 /20 /06	
8/28/86	

SF	SENDER: Complete items 1, 2, 3 and 4.				
S Form 3811, July 1983 447-845	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.					
447-	2. Restricted Delivery.				
145	3. Article Addressed to: Mr. Fred Crabil Florida Crushed P. O. Box 317 Leesburg, FL 3	l Stone Co.			
	4. Type of Service:	Article Number			
	☐ Registered ☐ Insured ☐ COD ☐ Express Mail	P 408 532 043			
Always obtain signature of addressee or agent and DATE DELIVERED.					
MOD	5. Signature - Addressee · X				
ESTIC	6. Signature – Agent				
RETU	7. Date of Delivery				
R	8. Addresseu's Address (ONLY if requested and fee paid)				
DOMESTIC RETURN RECEIPT	·	92-86			

PS Form 3800, Feb. 1982

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.

OV OM

C. H. Fancy, Deputy Chief

Bureau of Air Quality(

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

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 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

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 $\frac{403}{17-2}$, Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{17-2}$ and $\frac{17-4}{17-2}$. 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.

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.

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.

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.

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).

Permit Number: AC 27-118672 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 \$120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patricia De for Peggy Brown 8/27/86

Clerk Date

Issued this 26 day of friguest, 1986.

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 Co. P. O. Box 300 Leesburg, Florida 32749

1

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 $\frac{403}{7-2}$, Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{7-2}$ and $\frac{17-4}{7-2}$. 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.

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.

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;
 - 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.

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.

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).

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 \$120.52 (9), Fiorida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patricia Lee for Pergy Brown 8/27/86

Clerk Date

Issued this 26 day of figure ,

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 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 $\frac{403}{7-2}$, Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{7-2}$ and $\frac{17-4}{7-2}$. 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.

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.

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.

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.

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.

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:

Dollutant	Emission Limits lb/ton of kiln of feed		Allowable Emissions
Pollutant	ib/ con of kiin of feed	<u>lb/hr</u>	tons/yr
PM (cooler)	0.1	12.4	5 4
PM (kiln)	0.3	37.1	162
SO ₂	0.6	50.0	2 19
SO ₂ NOx	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 SO_2 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.

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

SPECIFIC CONDITIONS:

- 11. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to the DER Southwest District office. Full operation of the source many then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.
- 12. Prior to submitting an application for an operating permit, the permittee shall request that the allowable particulate emission rates from the following Chemical Lime Company sources be reduced to the following values:

Sources	Permit No.	Limit (lb/hr)
Kiln	AO 27-55581	18.0
Hydrator	AO 27-25269	14.0
Dryer	AO 27-50400	16.0
Bagging	AO 27-17352	6.0

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

Patricia Les for Peggy Brown 8/27/86

Clerk Date

Issued this 26 day of fragment 1986.
STATE OF FLORIDA DEPARTMENT OF

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 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.

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

GENERAL CONDITIONS:

- l. 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.

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.

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.

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).

Permit Number: AC 27-118675 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 \$120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patricia Lee for Peagy Brown 9/27/86
Clerk Date

Issued this 26 day of figure , 1966.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. O'SCHINKEL. 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 27-118676 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) $1\overline{7-2}$ 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.

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.

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
 - 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.

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.

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).

Permit Number: AC 27-118676 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 \$120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknow-

ledged.

Clerk Date

Issued this 26 day of fuguet,

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

4

VICTORIA J. TSOAINKEL, 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 27-118677 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 $\frac{403}{17-2}$, Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{17-2}$ and $\frac{17-4}{17-2}$. 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.

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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.

Permit Number: AC 27-118677 Expiration Date: June 30, 1987

GENERAL CONDITIONS:

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- 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;
 - 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.

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.

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).

Permit Number: AC 27-118677 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), Fiorida Statutes, with the designated Department Cierk, receipt of which is hereby acknowledged.

Patriciator for Peggy Benon 8/27/86

Clerk Date

Issued this 24 day of August,

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 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 $\frac{403}{7-2}$, Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{7-2}$ and $\frac{17-4}{7-2}$. 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.

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.

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.

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.

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).

Permit Number: AC 27-118678 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 \$120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patruia La for Paggy Brown 8/27/86

Clerk Date

Issued this 26 day of figure ,

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

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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.

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.

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.

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.

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.

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 \$120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patricipes for Reggy Biron 8/27/86

Clerk Date

Issued this 26 day of fugurt,

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 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

oz 25°55 bed Flysch and

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.

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.

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;
 - 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.

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.

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).

Permit Number: AC 27-118681 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 Reggy Brown 8/27/86

Clerk Date

Issued this 20 day of fugust

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 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 $\frac{403}{7-2}$, Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{7-2}$ and $\frac{17-4}{7-2}$. 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.

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.

Permit Number: AC 27-118683 Expiration Date: June 30, 1987

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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.

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.

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).

Permit Number: AC 27-118683 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 \$120.52 (9), Fiorida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patricia for Fergy Brown 8/27/86

Clerk Date

Issued this 26 day of freguet, 196.

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

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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) $1\overline{7-2}$ 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.

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.

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;
 - 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.

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
 - (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.

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).

Permit Number: AC 27-118684 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 \$120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknow-

Patricia See for Reagy Brown 8/27/86

Issued this 26 day of August, 198.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. #SCHINKEL, 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 27-118685 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 $\frac{403}{17-2}$, Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{17-2}$ and $\frac{17-4}{17-2}$. 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.

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.

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.

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.

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).

Permit Number: AC 27-118685 Expiration Date: June 30, 1987

SPECIFIC CONDITIONS:

- 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).
- 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.
- 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 \$120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknow-

Patricia for Peggy Brown 8/27/86 VICTORIA J. TSCHINI

Issued this 26 day of August

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

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

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

Permit Number: AC 27-118686 Expiration Date: June 30, 1987

County: Hernando

28° 35' 00" N Latitude/Longitude:

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) $1\overline{7-2}$ 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.

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.

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.

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.

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:

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- 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).

Permit Number: AC 27-118686 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 \$120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Patricia Law for Reggy Brown 8/27/86

Clerk Date

Issued this 26 day of fugurt,

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. ASCHINKEL. 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 27-118687 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 $\frac{403}{7-2}$, Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{7-2}$ and $\frac{17-4}{7-2}$. 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.

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.

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.

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
 - (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.

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).

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.

Raturia Far for Reggy Brown 8/27/86
Clerk Date

Issued this 26 day of finguet,

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 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 $\frac{403}{17-2}$, Florida Statutes, and Florida Administrative Code Rule(s) $\frac{17-2}{17-2}$ and $\frac{17-4}{17-2}$. 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.

:}

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.

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.

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.

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).

Permit Number: AC 27-118688 Expiration Date: June 30, 1987

SPECIFIC CONDITIONS:

- 4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 one time. If the test shows compliance, then future demonstrations of compliance with Specific Condition No. 1 shall be assumed if 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 \$120.52 (9), Fiorida Statutes, with the designated Department Clerk, receipt of which is hereby acknow-

Patrice Leggy Brown 8/27/86

Cierk Date

Issued this 26 day of fugurt, 1986.

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 Co. P. O. Box 300 Leesburg, Florida 32749

Permit Number: AC 27-118689 Expiration Date: June 30, 1987

County: Hernando

28° 35' 00" N Latitude/Longitude:

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) $1\overline{7-2}$ 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.

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.

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.

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.

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).

Permit Number: AC 27-118689 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 \$120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Raticis for Peace Brown 4/27/86 VICTORIA J.

Issued this 26 day of frame, 1986.

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 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.

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.

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;
 - 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.

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 \$120.52 (9), Horida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Potrus fee for leggy Brown 8/27/86
Date

Issued this 26 day of fuguet,

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

pages attached.

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

TO: Victoria J. Tschinkel

FROM: Clair Fancy Conference

DATE: August 25, 1986

SUBJ: Approval of Air Construction Permits

To:

To:

Loctn:

Loctn:

Date:

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

 $\mathbb{N}_{\mathbb{O}}$.

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RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—

NOT FOR INTERNATIONAL MAIL

(See Reverse)

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RESTRICTED DELIVERY. Show to whom, date, and address of delivery.\$	- \$		
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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)
) DER File No. AC 27-091426
Florida Crushed Stone Company) AC 27-091427
Post Office Box 317	AC 27-091429
Leesburg, Florida 32748) 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. 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 Statues.

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 constitutes 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 emissons from the six proposed sources are summarized in the following table:

	Exhaust Flow		sions
	(ACFM)	(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.

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.
- 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.
- J.B. Koogler's letter, dated October 25, 1984.

Page 1 of 6

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.

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;
 - 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.

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.

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.

	19
	STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
	VICTORIA J. TSCHINKEL, Secretary
pages attached.	

Issued this

day of

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"

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.

Page 1 of 6

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.

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;
 - 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.

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.

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 demon-strated 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.

•	19
	STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
	VICTORIA J. TSCHINKEL, Secretary
pages attached.	

Issued this

dav of

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:

P.O. Box 317

Leesburg, Florida 32748

Permit Number: AC27-091429

Florida Crushed Stone Company Expiration Date: March 31, 1987

County: Hernando

28° 34' 57" Latitude/Longitude: 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. 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:

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

Page 1 of 6

GENERAL CONDITIONS:

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- 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.
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GENERAL CONDITIONS:

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 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - 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.

GENERAL CONDITIONS:

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- 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.

GENERAL CONDITIONS:

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- 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.

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 thisday of
	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: AC27-091430

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.
- C.H. Fancy's letter, dated August 29, 1984.
- 4. J.B. Koogler's letter, dated September 12, 1984.
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- 7. J.B. Koogler's letter, dated October 25, 1984.

Page 1 of 6

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- 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.

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- 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.

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.

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.

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 thisday of 19
	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

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

Lime silo discharge and Project:

baghouse

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and $\overline{17-4}$. 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:

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

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.

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.

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.

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:
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 - 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.
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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.

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.
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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

28° 34' 57" Latitude/Longitude: N/

82° 25' 50"

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. 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.
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- J.B. Koogler's letter, dated September 12, 1984. 4.
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 - 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
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- 1. The hours of operations shall not exceed 7,884 hours per year.
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- 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 thisday of, 19
	STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
	VICTORIA J. TSCHINKEL, Secretary
pages attached.	

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

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 Fiorida 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 Fiorida 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 suifur 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.)
- 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. Oven 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. Oven

Mr. Richard C. Entorf

Mr. Larry Curtin

TABLE 1

SULFUR DIOXIDE EMISSION RATES FOR VARIOUS OPERATING CONDITIONS

FLORIDA CRUSHED STONE COMPANY BROOKSVILLE, FLORIDA

	(1)	Sulfur Dioxide (lb/hr)		
Case	Operating Units ⁽¹⁾	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	

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 $SO_2 = 50.0 \text{ tph} \times 39(0.75) \text{ lb } SO_2/\text{ton*}$ = 1,462.5 lb/hr generated.

 SO_2 adsorption by limestone injection (guaranteed by B&W) = 47.4%

SO₂ from economizer to baghouse = 1,462.5 (1 - 0.474) = 770 lb/hr.

To Stack

Baghouse will adsorb 0% of the SO_2 when the cement plant is not operating

 $SO_2 = 770 (1 - 0)$ = 770 lb/hr to the stack.

^{*} 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

 $SO_2 = 19.89 \times 39 (0.75) \text{ lb } SO_2/\text{ton}$ = 581.8 lb/hr from coal.

Limestone feed rate - 103.44 tph @ 0.04% sulfur

 $SO_2 = 103.44 \text{ tph } \times 2000 \text{ lb/ton } \times (0.0004 \times 2) \text{ lb } SO_2/\text{lb.}$ = 165.5 lb/hr from limestone.

Total SO₂ to Lime Plant = 747.3 lb/hr.

 SO_2 adsorption by fluid-bed = 95%*

SO₂ to Power Plant = 747.3 (1 - 0.95) = 37.4 lb/hr.

Power Plant

Coal firing rate - 42.13 tph @ 0.75% sulfur

 $SO_2 = 42.13 \times 39(0.75)$ lb SO_2 /ton = 1,232.3 lb/hr from coal.

Lime Plant SO₂ = 37.4 lb/hr

Total SO₂ to Power Plant = 1,269.7 lb/hr.

 so_2 adsorption by limestone injection (guaranteed by B&W) = 39.4%.

SO₂ from economizer to baghouse = 1,269.7 (1 - 0.394) = 770 lb/hr

To Stack

Baghouse will absorb 0% of the SO_2 when the cement plant is not operating

 $SO_2 = 770 (1 - 0)$ = 770 lb/hr to the stack

^{*} See FDER letter dated October 11, 1984

Case 3 - Power Plant/Lime Plant/Cement Plant @ 75 tph clinker

Lime Plant/Power Plant

Cement Plant

 $SO_2 = 52.6$ lb/hr to the baghouse

To Stack

Baghouse will adsorb 5% of the SO_2 with the cement plant operating.

 $SO_2 = (770 + 52.6)(1 - 0.05)$ = 781 lb/hr* to the stack.

^{*} 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

 50_2 from economizer to baghouse = 770 lb/hr (from Case 2)

Dryer

82.9% of the gases from economizer pass through the fluid-bed rock dryer where 15% of the $\rm SO_2$ is adsorbed and then to the baghouse.

17.1% of the gases from economizer by-pass the dryer and go directly to the baghouse.

$$S0_2 = 770 (0.171)(1) + 770 (0.829)(1 - 0.15)$$

= 674.3 lb/hr to baghouse.

Cement Plant

 $SO_2 = 52.6$ lb/hr to the baghouse.

To Stack

Baghouse will adsorb 5% of SO_2 with the cement plant operating.

$$S0_2 = (674.3 + 52.6)(1 - 0.05)$$

= 691 lb/hr* to the stack

^{*} Includes 50.0 lb $S0_2$ /hr from the cement plant as presently permitted.

Case 5 - Power Plant/Lime Plant/Dryer

Lime Plant/Power Plant

 50_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 ${\rm SO}_2$ 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.

$$50_2 = (681.0)(1 - 0)$$

= 681 lb/hr to the stack

Case 6 - Power Plant/Cement Plant/Dryer

Power Plant

SO₂ from economizer to dryer = 770 lb/hr (from Case 1)

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.

$$SO_2 = 770(0.302)(1) + 770(0.698)(1 - 0.15)$$

= 689.4 lb/hr to the baghouse.

Cement Plant

 $SO_2 = 52.6$ lb/hr to the baghouse.

To Stack

Baghouse will adsorb 5% of the SO₂

$$SO_2 = (689.4 + 52.6)(1 - 0.05)$$

= 705 lb/hr to the stack.

Case 7 - Power Plant/Cement Plant

Power Plant

 50_2 from the economizer to the baghouse = 770 lb/hr (from Case 1)

Cement Plant

 $SO_2 = 52.6$ lb/hr to the baghouse.

To Stack

Baghouse will adsorb 5% of the SO_2 when the cement plant is operating.

 $SO_2 = (770 + 52.6)(1 - 0.05)$ = 781 lb/hr* to the stack.

^{*} Includes 50.0 lb $\mathrm{SO}_2/\mathrm{hr}$ from the cement plant as permitted.

Case 8 - Power Plant/Dryer

Power_Plant

 $S0_2$ 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 ${\rm SO}_2$ 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)

	(See Reverse)				
	Mr. Browne Greg	g ,			
	Street and No.				
	P.O., State and ZIP Code				
	Postage	\$			
•	Certified Fee	Ì			
•	Special Delivery Fee				
	Restricted Delivery Fee				
	Return Receipt Showing to whom and Date Delivered	<u>:</u>			
82	Return Receipt Showing to whom, Date, and Address of Delivery				
eb. 19	TOTAL Postage and Fess	\$			
0, Fe	Postmark or Date				
PS Form 3800, Feb. 1982	10/11/84				

S Form	SENDER: Complets items 1, 2, and 3. Add your address in the "RE reverse.	TURN	TO" space on	
3811, Jan. 1979	1. The following service is requested (check one.) Show to whom and date delivered			
	(CONSULT POSTMASTER FOR	FEE	s)	
- 1	2. ARTICLE ADDRESSED TO:			
ET	Mr. Browne Gregg			
핅	P. O. Box 317		7.4.0	1
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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 Prosposed 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



SKEC 307-84-02

October 2, 1984

DER OCT: 1984 BAOM

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. Koog/er, Ph.D., P.E.

JBK:ssc Attachment

cc: Mr. Larry Walker Mr. R. C. Entorf Mr. Larry Curtin Mr. Bill Thomas

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 ${\rm SO}_2$ in the flue gas leaving the

Mr. L. Walker 2 September 12, 1984 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 SO_2 emissions at the boiler economizer outlet. Yours very truly, DNS012/jmg CC: W. F. Gohara D. N. Strong J. E. Scheatzle - IPGD M. E. Murphy - IPGD

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, <u>Compilation of Air Pollutant Emission Factors</u>, (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 kiins are presented. In describing characteristics of the kilns it is "Fluidized-bed kilns have highest the uncontrolled This is due primarily to the <u>very</u> particulate emissions. small feed size..." (Emphasis added). Regarding the rotary kiln, it is stated that "The rotary kiln is second to the fiuidized-bed kiln in uncontrolled particulate emissions. This is attributed to the <u>small feed size</u>..." (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 SO2."

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 Data presented with PSD-FL-088, and attached 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 fuei) wili pass through a fluid-bed limestone dryer. Considering the fact that ilmestone 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 suifur dioxide absorption in the Fiorida 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 dloxide absorption in the fiuid-bed limestone dryer.
 - D. 50 pounds per hour sulfur dloxide 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 suifur 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 reduced 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 proivided 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.

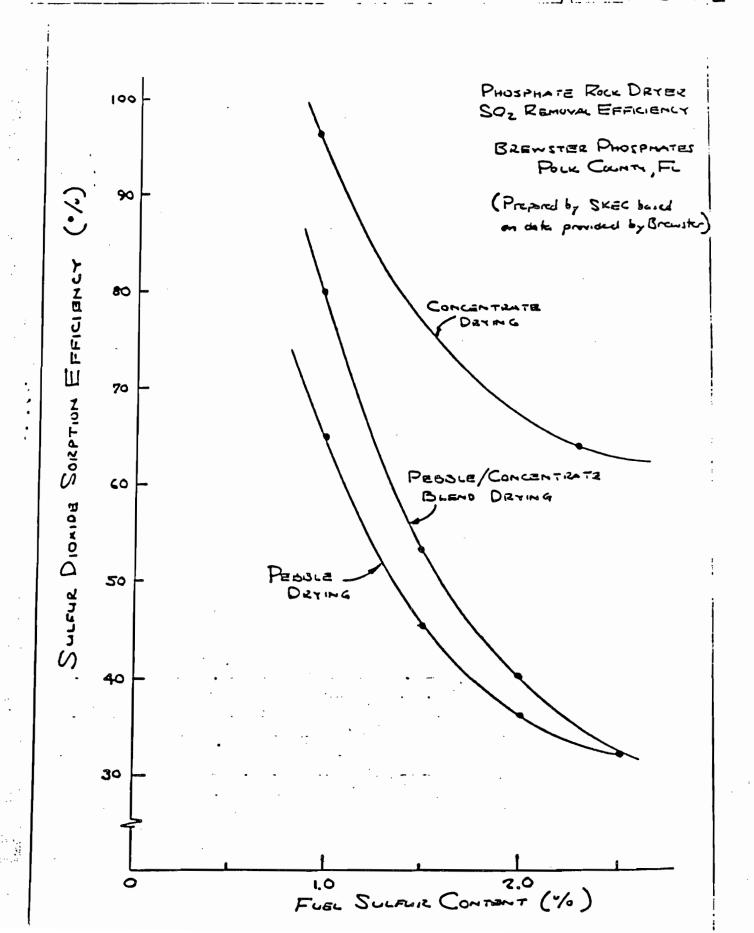
Very truly yours,

SHOLTES & KOOGLER, ENVIRONMENTAL CONSULTANTS

John B. Koog/er, 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 limes 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 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.

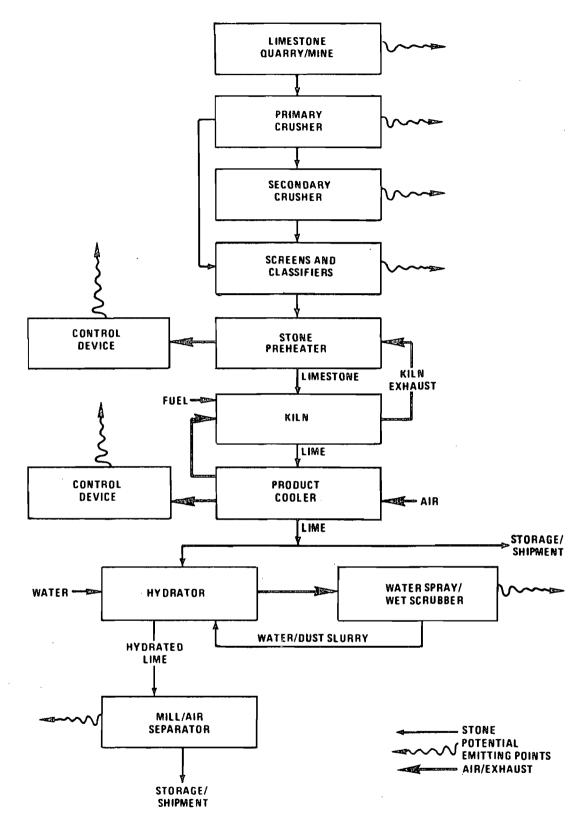


Figure 8.15-1. Generalized lime manufacturing plant.

In the United States, the major use of lime is in chemical and metaflurgical 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

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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 or 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) scubbers, 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 Vable 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.

4/77

Mineral Products Industry

8.15-3

Table 8.15-1. EMISSION FACTORS FOR LIME MANUFACTURING EMISSION FACTOR RATING: B

	Emissions ^a									
	Particulate		Sulfur dioxide		Nitrogen oxides		Carbon monoxide			
Source	lb/ton	kg/MT	lb/ton	kg/MT	lb/t [,]	kg/MT	lb/ton	kg/MT		
Crushers, screens, conveyors, storage piles, unpaved roads	b	,p	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 After secondary dust	85 ^e	43 ^e	d	đ	3	1.5	2	1		
collectionf	1	0.5	9	9	3	1.5	2	1		
Vertical kilns Uncontrolled	8	4	NA ^h	NA ^h	NA	NA	NA	NA		
Calcimatic kilns ⁱ	ì	İ						Ì		
Uncontrolled After multiple cyclones After secondary dust	50 6	25 3	NA NA	NA NA	0.2 0.2	0.1 0.1	NA NA	NA NA		
collection	NA	NA	NA	NA	0.2	0.1	NA	NA		
fuidized-bed kilns	NAk	NAk	NA	NA	NA	NA	NA	NA		
roduct 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.

PEmission 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 breeching 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.

⁹When 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.

Calcimatic kilns generally employ stone preheaters. All factors represent emissions after the kiln exhaust passes through a preheater.

¹Fabric 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.

Some 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.

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FLORIDA CRUSHED STONE COMPANY

September 7, 1984

DER

SEP 1 1 1984

BAQM

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

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,

Richard C. Entorf

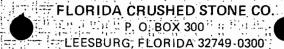
President

RCE/mk

Enc.

cc: J. Koogler

L. D. Walker



NCNB National Bank of Florida

== P.O. Box 25900 Tampa, Florida 33630

PAYOne thousand six hundred and no/100 -

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

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STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 76042

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Standar Chicare	
	lung FL 32749-030Bollars \$ 1,600.00
Applicant Name & Address	in the one
Source of Revenue	
Revenue Code 001031	AC27-11489, AC27-11536 Application Number 229 11433, AC27-11430 (C27-1143) AC27-11439, AC27-11430 (C27-1143)
	By Patricia S. Clarinas

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:

- 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, NOx, 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 BAOM

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 Gaineaville, Florida 32801 (904) 377-5822

DER

SKEC 307-84-02

AUG 9 1984

BAQM

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:

- A limestone storage silo to store dried limestone for the lime plant,
- 2. A limestone screening system to size the dried limestone,
- 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

Check

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 kiin 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 venders 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 boller 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 voltatile organic compounds; but increases that are less than the de minimus emission rate increases for The data further show that there will be a significant these pollutants. 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 <u>criteria poliutants will</u> 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 boller 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 dloxide emission rate from the modified Florida Crushed Stone facility and modified stack gas parameters were input to the ISC-ST model along with sulfur dloxide 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 & KOOGLER,

ENVIRONMENTAL CONSULTANTS

√Jøhn B. Koǿgler, Ph.D., P.E.

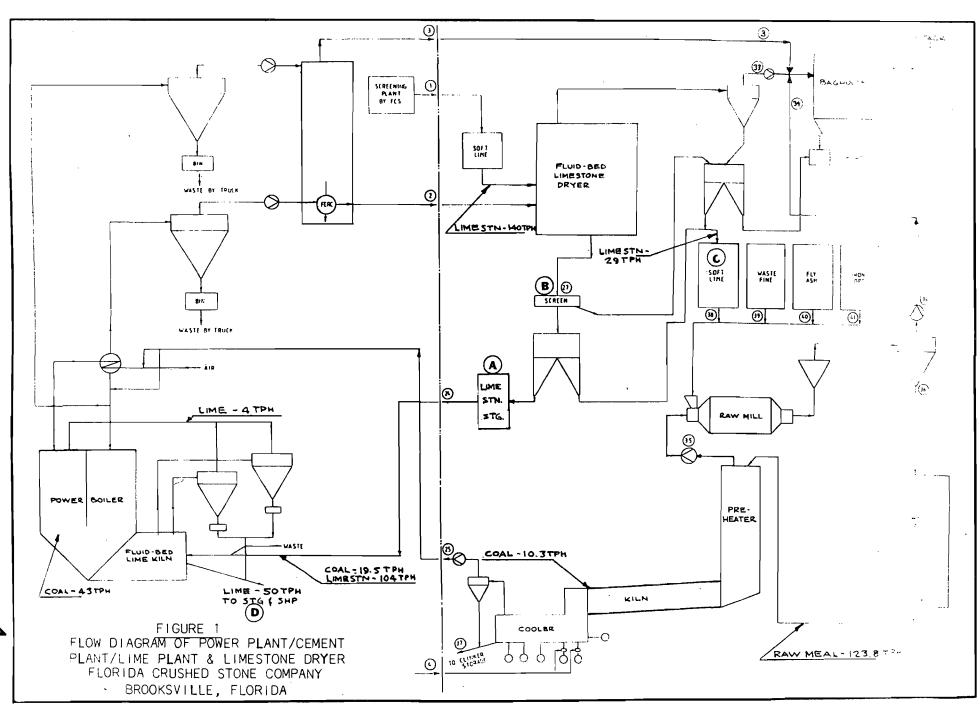
JBK: Idh Enclosures

cc: Mr. C.H. Fancy

Mr. Browne Gregg

Mr. Dick Entorf.

Mr. Larry Curtin



SHOLTES * KOOGLER

INTERNAL AND STACK GAS FLOW RATES AND TEMPERATURES AND AIR POLLUTANT EMISSION RATES FOR VARIOUS OPERATING CONDITIONS

TABLE 1

FLORIDA CRUSHED STONE COMPANY BROOKSVILLE, FLORIDA

			Gas Stream ⁽²⁾					Stack Gas				
Case	Operating Units (1)	Flow (ACFM)	Temp (°F)	Flow (ACFM)	Temp (°F)	Flow (ACFM)	Temp (°F)	Flow (ACFM)	Temp (°F)	50 ₂ (1b/fir)	NOx (1b/hr) (P.M. (1b/hr)
1	Power	420.000	330	0	_	0	-	420,000	330	750	846	37.0
2	Power/time	471,290	355	0	-	0	-	471,290	355	750	846	46.1 .4
3	Power/Ilme/cement	532,459	403	0	-	159,637	250	692,096	362	800 (\$)	1205 (5)	86.5 (st
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

Power - Power plant @ 125 mw
Lime - Fluid-bed lime kiin @ 50 tph lime
Oryer - 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.
- 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 ib/hr (as permitted)

Power/Lime Plant - 0.7 lb/10⁶ BTU not to exceed

846 lb/hr

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/10⁶ BTU not to exceed

46.1 lb/hr

Power/Lime/Cement - 0.1 ib/ton of feed; clinker cooler,

0.3 lb/ton of feed; kiln and 0.03 lb/10 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/10⁶ BTU not to exceed

750 lb/hr

TOTAL - 800 lb/hr

or

3147 tpy

CARBON MONOXIDE -

Cement Plant - 0

Power/Lime Plant = 1.0 lb/ton coal \times 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

	Annual Emission Rate (tons/year)							
Pollutant	Proposed ⁽¹⁾	Permitted ⁽²⁾	(Decrease)	De Minimus Emission Rate increase				
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				

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.

Proposed Florida Crushed Stone facility as permitted with a 125 megawatt power plant and a 75 tph (clinker) cement plant.

Based on 1.0 lb CO per ton of coal and a proposed coal use rate of 572,000 tons per year.

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 TRAFFIC

FLORIDA CRUSHED STONE COMPANY BROOKSVILLE, FLORIDA

	Particulate Ma	tter Emission Rates		
Sources (1)	(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 Siio 🖯	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.

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

		Emis	Emission Rate (pounds/year)					
	Emission,		Control	led		Control (1) Efficiency (\$)		
Pollutant	Factor (1b/10 ¹² BTU)	Uncontrolled ⁽³⁾	Proposed (1)	Permitted	De Minimus ⁽²⁾			
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 mln.		
H ₂ SO ₄ Mist	0.74% of S in coal	194,443	13,400	13,400	14,000	93.1 mln.		

- (1)
 Calculated by method outlined in Sholtes & Koogler, Environmental Consultants (SKEC) letter to
 C. H. Fancy and dated October 28, 1983.
- 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.
- Based on the following heat input rates:

Power Plant = 43.0 tons coal/hr x 2000 lbs/ton x 12,200 BTU/lb x 7884 hrs/year = 8.27×10^{-12} BTU/year

Lime Plant = 19.5 tons coal/hr \times 2000 \times 12,200 \times 7884 = 3.75 \times 10 BTU/year

Cement Plant = 10.4 tons coal/hr x 2000 x 12,200 x 7620 = $\frac{1.93 \times 10}{1.00}$ BTU/year

TOTAL = 13.95×10^{12} BTU/year

- Exceeds de minimus emission rate, however the maximum 24-hour average impact will be in the range of 0.0005 ug/m compared with the de minimus 24-hour average impact for mercury of 0.1 ug/m.
- Exceeds de minimus emission rate, however the maximum 24-hour average impact will be in the range of 0.000007 ug/m compared with a de minimus 24-hour average impact for beryillum of 0.005 ug/m.

SHOLTES KOOGLER

TABLE 6 CLASS I AREA SULFUR DIOXIDE IMPACTS NEW AND PROPOSED SOURCES IN BROOKSVILLE, FLORIDA AREA

FLORIDA CRUSHED STONE COMPANY BROOKSVILLE, FLORIDA

	Annual				3-Hour			24-Hour			
Year	FCS ⁽¹⁾	FMM ⁽²⁾	AII ⁽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		

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.

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 / CEMBAT PLANT FLORIDA CRUSHED STONE COMPANY BROSICSVILLE, FLORIDA

CASE 1

Power Plant Only @ 125 Mw

SOZ @ 0.65 16/10 BT4, not to exceed 750 13/40

= 1234.0 × 10 BT4/hr x 0.65

= 802 13/hr > 750 16/hr 750 = 1,154 == Set at limit of

= 750 16 502/hr

NOx @ 0.7 16/10 GTU, not to exceed 846 16/4n

846 = 1209

= 1234.0 x 10 6 x 0.7

= 864 16/hr > 84616/hr

=. Set at limit of

= 846 16 NOx /hr

P.H. @ 0.03 16/10 BTW

= .234.0 x 10 4 x 0.03

= 37.0 16 P.M./4r

CO @ 1.0 lb / for Coal

= 50.0 +ph coal x 1.0 15/ton

= 50.0 15/hr

```
Power Plant @ 125 hw
Lime Plant @ 50 +ph

SO2

= 1538 x 106 BTU/hrx 0.65 = 999.7

> 750 16/hr

: Set at limit of

= 750 16 502/hr
```

NOx = 1538×10° BTU/hr x 0.7 = 1077 > 846 16/hr = Sef at limit of = 846 16 NOx/hr

P.H. = 1538 x 10 ° BTu/Ln x 0.03 = 46.1 16 P.H. /hn

CO = 62.4+h coal x 1.0 = 62.4 16 co/hr

Power Plant @ 125 mw Line Plant @ 50 tph Cenent Plant @ 75 tph clinker

BOZ
Power/Line plants = 750 lb/hr (limit)
Cement plant = 50 lb/hr (as permitted)
Total 50z = 800 lb 50z/hr

NOx
Power/Lime plants = 846 lb/hr (limit)
Cement plant = 359 lb/hr (as permitted)

Total NOx = 1205 lb NOx/hr

P.M.

Power/Line plants = 46.1 lb/hr

Canent plant = 49.5 lb/hr (as permitted)

Total PM = 95.6 lb PM/hr

Set at limit of

86.5 lb PM/hr (limit)

CO
Power/Lime plants = 62.4 lb/hr
Cenent plant = 0

Total CO = 62.4 lb Co/hr

Power Plant @ 125 mm Lime Plant @ 50 tph Cement Plant @ 75 tph clinker Dryer @ 140 tph

Power Plant @ 125 hw Lime Plant @ 50 tph Dryer @ 140 tph

Soz Power/Lime/Dryer = 60016/hr

Power/Line Plants = 846 15/hr (limit)
Dryer = 0

Total NOx = 846 15/hr

Power / Lime Plants = 46.1 16/hr
Dryer = 0

Total P.M. = 46.1 16/hr

CO Power / Lime Plant = 62.4 lb/hn
Dryer = 0

Total CO = 62.4 lb/hr

CASEG

Power Plant @ 125 Mw Dryer @ 140 teh Cement Plant @ 75 tph clinker

SO2
Power Plant / Dryer = 720 16/hr
Cement Plant = 50 16/hr (as permitted)
Total 80e = 770 16/hr

NOx
Power Plant = 846 15/hr (11mit)

Dryer
Cement Plant = 359 16/hr (as permitted)

Total NOx = 1205 16/hr

Power Plant = 37.0 lb/hr

Dryer

Cement Plant = 49.5 lb/hr (as pornitted)

Total PH = 86.5 lb/hr

Power Plant = 50.016/hr
Dryer = 0

Cement Plant = 0

Total CO = 50.016/hr

Power Plant @ 125 mw Cement Plant @ 75 tph clinker

Power Plant @ 175 Mw Dryer @ 90 tph

502 Power Plant/Dryer

= 720 16/hr

NOx

Power Plant Dryer

= 846 16/hr (limit)

Total NOx

Total CO

= 0

PM

Power Plant Dryer

- 37.0 15/hr

Total PM

CO

Power Plant Dryer

= SO. 0 15/hr

CASE 9

Cement Plant @ 75 tph clinker

SOz Cement Plant =

50.0 lb/hr (as permitted)

NOx Cement Plant = 359 lb/hr (as permitted)

Cement Plant = 49.5 1 Whr (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

BOB GRAHAM

VICTORIA J. TSCHINKEL SECRETARY

AUG 9 1984

ALEX SENKEVICH DISTRICT MANAGER

BAQM

APPLICATION TO OFERATE/CONSTRUCT AIR POLLUTION SOURCES

F 1		0+			1		
COMPANY NAME: Flo	orida Crushed	Stone Cor	npany		COUNTY:	Hernando	
Identify the spec	ific emission	point sou	rce(s) addr	essed in this	applicati Limestone		
Kiln No. 4 with Ve	enturi Scrubb	er; Peakin	g Unit No.	2, Gas Fired			
SOURCE LOCATION:	Street Cobb	Rd.; 2 mi	NW of Brook	ksville	City_Bro	ooksvill	e · ··
·	UTM: East	359.998	3 km	North_	3162.392	km	•
	Latitude	_ · *	М.,	Longi	tude°		w
APPLICANT NAME AND	TITLE: Brow	ne Gregg,	Chairman a	nd CEO			
APPLICANT ADDRESS	Post Office	Box 317,	Leesburg, I	Florida 327	18		
A. APPLICANT	SECTION 1	: STATEME	NIS BY APPL	ICANT AND ENG	INKKR	1 ,	· :
I am the under	rsigned owner	or author	ized repres	entative* of	Florida Cr	ushed St	one C
		nts made i	n this appl	ication for a	Construct	ion	
I certify that permit are tro I agree to me facilities in Statutes, and also understand I will pro- establishment.	e, correct and and and a such a mann all the rule and that a per comptly notify	nd complet operate the er as to s and regu mit, if g	e to the be ne pollution comply with lations of ranted by t	st of my known control so the provision the department of the depa	viedge and urce and lon of Cha it and revi t, will be	belief. pollution pter 40 isions telement	on cou 3, Flo hereof ansfer
I certify that permit are treated to make the facilities in Statutes, and also understand I will pro-	e, correct and aintain and a such a mann all the rule and that a per comptly notify	nd completoperate the constant of the constant	e to the be ne pollution comply with lations of ranted by t	st of my known control so the provision the department of legal and the department of legal and the department of legal and le	viedge and urce and lon of Cha it and revi t, will be	belief. pollution pter 40 isions telement	on cou 3, Flo hereof ansfer
I certify that permit are treat agree to make facilities in Statutes, and also understand I will prestablishment.	e, correct and aintain and a such a mann all the rule and that a per comptly notify	nd completoperate the constant of the constant	e to the be ne politicion comply with clations of ranted by t tment upon Signed:	st of my known control so the provision the department of legal sale or	viedge and urce and lon of Chant and revit, will be a transfer and CEO	belief. pollution pter 40 isions to the confidence of the	on cou 3, Flo hereof ansfer
I certify that permit are treat agree to make facilities in Statutes, and also understand I will prestablishment.	e, correct and aintain and a such a mann all the rule and that a per comptly notify	nd completoperate the constant of the constant	comply with lations of ranted by to the the comply with lations of ranted by the complex signed: Browne (Name Name	st of my known control so the provision the department of legal and the department of	viedge and urce and lon of Chant and revit, will be a transfer and CEC (Please Type)	belief. pollutic pter 40 isions t non-tr of the ype)	on cou 3, Flo hereof ansfer permi

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

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principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, the

	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
	Hailing Address (Please Type)
lo	rida Registration No. 12925 Date: 8/8/84 Telephone No. (904) 377-5822
	SECTION II: GENERAL PROJECT INFORMATION
•	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.
•	Schedule of project covered in this application (Construction Permit Application Only) Start of Construction November 1984 Completion of Construction October 1986 Costs of pollution control system(s): (Notes: 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 Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates. None

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•	Requested permitted equipment operating time: hrs/dey_24_; days/wk_7	_; wks/yr_52
	if power plant, hrs/yr; if seasonal, describe: The screens will op	erate
	7884 hours per year.	
•	If this is a new source or major modification, answer the following quest(Yes or No) No - Minor modifications to major emitting facility.	tions.
	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 yee, list non-attainment pollutants.	
	 Does best evailable control technology (BACT) apply to this source? If yes, see Section VI. 	NO
	3. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yee, see Sections VI and VII.	NO
	4. Do "Standarde of Performence for New Stationary Sources" (NSPS) apply to this source?	NO
	5. Do "Netional Emission Standards for Hezardous Air Pollutants" (NESHAP) apply to this source?	NO
•	Do "Reseanably Available Control Technology" (RACT) requirements apply to this source?	NO
	e. If yes, for what pollutants?	

b. If yea, 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 "Yea". 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:

	Contam	inents .	Utilization	
Description	Type	~~% Wt	Rate - lbs/hr	Relate to Flow Diagram
Dried Limestone	Part.Matter	2 - 3	280,000	В
	•			

0	D	D - A -			/	C L L !		7 A	• 1	۸
п.	PTOCARR	KETA.	1 7	applicables	1380	SACTION	•	1500		1
	,				,,,,,				- 4	,

i	Total Process Inp	it Rate	(1bs/hr):	 280.000 max.	drying rate	· · · · · · · · ·	
2.	Product Weight (1)	hå/he).		 280.000	14 3000		

Burn to man

3040

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

Name of	Emission ¹	Allowed ² Emission Rate per	Allowable ³ Ealesion	Potential ⁴ Emission	Relate to Flow
Conteminent	Heximum Actuel*lbs/hr T/yr	Rule 17-2	lbe/hr	ibe/yr	Diagram
Part Matter_	0.8* 3.0	17-2.610FAC	T/2 · · ·	* 1771 * * 3040	Stack
*Based o	n 0.015 gr/acf			A A STATE OF BEE	
Potentia	Emissions = 6000	acfm x 60 m	n/hr x (15 gr	/acf/7000) = 771 lbs	/hr
	2.			× 7884/20	00
				= 2026 to	v

I See Section V, Item 2.

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

Calculated from operating rate and applicable standard.

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

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

Name and Type (Model & Serial No.)	Conteminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Baghouse with 6.5-1	Part. Matter	99.90%	_ > 0.5 um	Estimate
air to cloth ratio			- //	
				· · · · · · · · · · · · · · · · · · ·
Efficiency based on in	let and outlet	particulate con	centration	
= (15 - 0.015) x 100/1	5 = 99.90%			

E. Fuels

	Consum	Consumption*	
Type (Be Specific)	avg/hr	mex./hr	Maximum Heat Input (MMBTU/hr)
None			· · · · · · · · · · · · · · · · · · ·

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

		Percent Ash:		
Density:	lbs/gel	Typical Percent Nitrogens		
Heat Capacity:	_ 8TU/1b		_ BTU/gal	
Other Fuel Conteminants (which may conteminants) F. If applicable, indicate the percent	ent of fue	l used for space heating.		
	M =	v f m m		
Annual Average Not Applicable		A1#Q#		
Annual Average Not Applicable G. Indicate liquid or solid wastes				
•	generated	and method of disposal.	<u> </u>	

]nt:	30		ft.	Stack Di	emoto	r: <u>2.0</u>	rt
as Flow R	late: 6000	ACFH	5064	DSCFH	Gæi Exit	Temp	erature:	50 • F
ater Yapo	r Cantent:	2-3		<u> </u>	Valocity		31.8	FP
		SECT			ATOR INFO	RMATI	G N	
Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Typé (Garba	gé) (Path	IV olog- ∎l)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr nciner- ated								
Uncon- trolled (lbs/hr)	er er er er er Atte				Section 2 control			
otal Welg	ht Incinera	ited (1bs/h			Dealg	n Cap	acity (lba/	hr)
	·	•	•				••	wke/yrozenia zani
inu factur	0		and the second of the second o	·········· Hod	el No			was us faith
inu factur	0		Heat R	Mod	el No	Fuel		Temperature (°f)
inu fectur	er	Volume	Heat R	Mod	el No.	Fuel	BTU/hr	Temperature (°f)
nufactur ite Const	er	Volume	Heat R	Mod	el No.	Fuel	BTU/hr	Temperature (°f)
rimary E	ructed	Volume (ft) ³	Heat R	elease /hr)	Type	Fuel	BTU/hr	Temperature (°F)
rimary E	ructed hamber Chamber	Volume (ft) ³	Heat R (BTU	elease /hr)	Type	Fuel	BTU/hr Stack T	Temperature (°F)
rimary Constack Heights Flow R	ructed hamber Chamber ht:	Yolune (ft) ³	Heat R (BTU) Stack Dia ACFM	elease /hr)	Type DSi	Fuel CFH+	Stack T	Température (°f)

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Ultimate disposal of any effluent other than that emitted from the stack (scrubber water ash, etc.):
•
NOTE: Itema 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.
SECTION V: SUPPLEHENTAL 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 A and B) 2. To a construction application, attach basis of emission estimate (e.g., design calcutione, design drawings, pertinent manufacturer's test data, etc.) and attach proposethods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with plicable standards. To an operation application, attach test results or methods ut show proof of compliance. Information provided when applying for an operation pait from a construction permit shall be indicative of the time at which the test made. (See Attachment 1)
 Attach basis of potential discharge (e.g., emission factor, that is, AP42 test). (See Section IIIC and Attachment 1) With construction permit application, include design details for all air pollution of trol systems (e.g., for beginning include cloth to air ratio; for acrubber 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 emsions = 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 individual operations and/or processes. Indicate where raw materials enter; where id and liquid weets exit, where gaseous emissions and/or airborne particles are evoluted where finished products are obtained.
(Attachment 2) 7. An 8 1/2" x 11" plot plan aboving the location of the establishment, and points of a borne emissions, in relation to the surrounding area, residences and other perman 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 process and outlets for airborne emissions. Relate all flows to the flow diagram.
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9.	The appropriate application fee in accord made payable to the Department of Environs	ance with Rule 17-4.05. The check should be mental Regulation.
10.		, attach a Certificate of Completion of Con- s constructed as shown in the construction
٨.	SECTION VI: BEST AVAILA Not App Are standards of performance for new state applicable to the source?	ABLE CONTROL TECHNOLOGY Dicable Londry sources/ pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Conteminant	Rate or Concentration
	· · · · · · · · · · · · · · · · · · ·	
<u>-</u>		
		- The state of the
	yea, attach copy) [] Yea [] No Contaminant	Rate or Concentration
	ing the state of t	A STATE OF THE STA
	the first of the f	· Soften Compare de marco de do marco de la comparción de
c.	What emission levels do you propose as be	st eveilable control technology?
	Conteminant	Rate or Concentration
		The formal of the second of th
·.	The second of th	The Control of Control
0.	Describe the existing control and treatments of Control Device/Systems	nt technology (if any). 2. Operating Principles:

*Explain method of determining

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3. Efficiency:*

Capital Costs:

Useful Life: Operating Costs: Energy: Maintenance Cost: 9. Emissions: Conteminent Rate or Concentration 10. Stack Parameters ft. b. Diameter: ft. Height: ACFH d. ·F. Flow Rates Temperature: FPS Velocitys Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). ı. Control Device: Operating Principles: Efficiency: 1 Capital Coat: Useful Life: f. Operating Costs Energy: 2 h. Maintenance Costi Availability of construction meterials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 2. Control Device: ь. Operating Principles: Efficiency: 1 d. Capital Cost: c. Useful Life: Operating Cost: Maintenance Coats Energy: 2 Q. Availability of construction materials and process chemicals: $^{\mathrm{l}}$ Explain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH deaign rate.

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Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: Operating Principles: Efficiency: 1 d. Capital Cost: C. Useful Life: Operating Cost: Energy: 2 Hainténance Cost: Availability of construction materials and process chemicals: . L Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 4. b. Operating Principles: Control Device: Efficiency: 1 d. Capital Costs: f. Operating Cost: Useful Life: Energy: 2 Maintenance Costs Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: 2. Efficiency: 1 1. Control Device: 3. Capital Cost: Useful Life: 5. Operating Cost: Energy:2 Manufacturer: 7. Maintenance Cost: Other locations where employed on similar processes: a. (1) Company: (2) Mailing Address:

¹Explain method of determining efficiency.

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

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(3) City:

â

F.

(4) State:

(5) Environmental Manager:						
(6) Telephone No.:						
(7) Emissions: 1						
	Conteminant				Rate or	Concentr	ation
							·
(8)) Process Rate: 1						
b.	(1) Company:						•
(2) Mailing Address:						
(3)) City:	,	(4) St	ate:			
(5)	Environmental Hanager:						
(6)	Telephone No.:						
(7)) Emissions: 1						
	Conteminant				Rate or	Concentr	ation
							_
(8)	Process Rate: 1	· .					
10.	. Reason for selection and	description	of avat	6 R S 1			
	eent must provide this info able, applicant must state t SECTION VII - F	the reason(s) why. F SIGNIF	•			formation not
. Can	apany Monitored Data	MOL WALL	, cap i c				
1.	no. sites	TSP	·	()	so2+ _		_ Wind spd/dir
Pet	riod of Monitoring	month d		to			
							a P
0 t i	ner data recorded						
Att	tach all data or statistical	summaries	to this	eppli	cation.		
Sacrif	fy bubbler (B) or continuous	· (r)					
·		. (07.			-		
	rm 17-1.202(1) ive November 30, 1982	Pega	11 of 12				

	2.	Instrumentation, Field and Laboratory	
	8.	Was instrumentation EPA referenced or it	e equivalent? [] Yes [] No
	b.	Was instrumentation calibrated in accord	ance with Department procedures?
		[] Yes [] No [] Unknown	
В.	Met	eorological Data Used for Air Quality Mod	aling
	1.	Year(s) of data from // /month day y	to / / 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)
:.		puter Models Used	* .
	1.		Modified? If yes, attach description.
	2.		Modified? If yes, attach description.
	3.		Hodified? If yes, attach description.
	4.		Modified? If yes, attach description.
			g input data, receptor locations, and prin-
٠.	Арр.	licants Maximum Allowable Emission Data	
	Pol	lutant Emission Rate	
	•	TSP	grams/sec
	9	502	grams/sec
	Emia	ssion Data Used in Modeling	· .
	poir		ata required is source name, description of ordinates, stack data, allowable emissions,
	Att	ach all other information supportive to t	ne PSD review.
•	ble	cuss the social and economic impact of the technologies (i.e., jobs, payroll, processment of the environmental impact of the	e selected technology versus other applica- oduction, taxes, energy, etc.). Include e sources.

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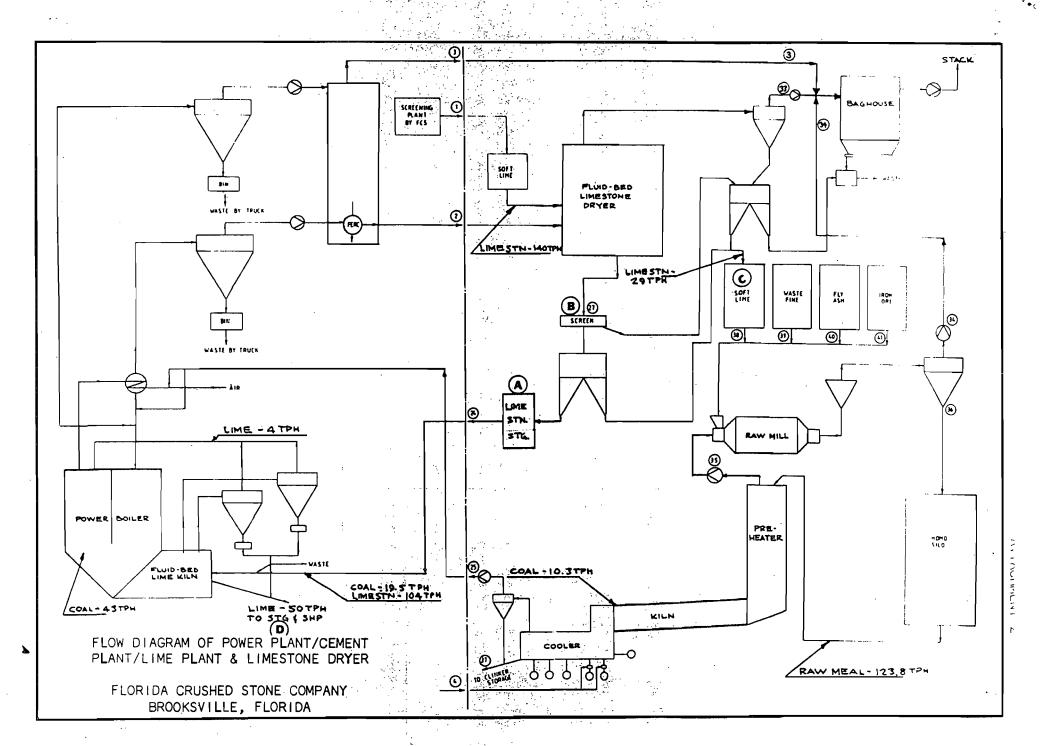
the requested best available control technology.

Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of

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. H ₂ 0)	
Fan Requirement (Hp)	20
Air/Cloth Ratio (Acfm/ft ²)	6.5
Bag Diameter (in.)	6
Bag Length (ft.)	10
Number of Bags	60
Number of Compartments	
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

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

> ALEX SENKEVICH DISTRICT MANAGER

BAQM

SOURCE TYPE: Limestone Fines Bin for Cement Plant New! [] Existing!					
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					
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, Florid 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 permitten establishment. *Attach letter of authorization Signed: **Attach letter of authorization CEO Name and Title (Please Type)					
Date: 1/8/8/ 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 hav been designed/examined by me and found to be in conformity with modern engineerin principles applicable to the treatment and disposal of pollutants characterized in th permit application. There is reasonable assurance, in my professional judgment, tha					

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

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Page 1 of 12

pollution manures.	the pollution control facilities and, if applicable,
Maria Maria	Signed
	John B. Koogler, Ph.D., P.E.
STATE OF THE STATE	Name (Please Type)
1 9 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6	Shoites & Koogler, Environmental Consultants Company Name (Please Type)
The state of the s	1213 NW 6th Street, Gainesville, FL 32601 Mailing Address (Please Type)
Florida Registration No. 12925	Date: 8/8/84 Telephone No. (904) 377-5822
	II: GENERAL PROJECT INFORMATION
and expected improvementa in whether the project will resundencessary.	t of the project. Refer to pollution control equipment, source performance as a result of installation. State It in full compliance. Attach additional sheet if
Baghouse on a limestone fi	nes storage bin associated with the cement plant. The
bin receives fines from the	e screens following the 140 tph limestone dryer. Particulat
Emissions will be controlle	ed by a baghouse with a 6.5-1 air to cloth ratio.
. Schedule of project covered i	n this application (Construction Permit Application Only)
. Schedule of project covered i Start of Construction Novem Costs of pollution control sy for individual components/uni Information on actual costs s permit.)	
. Schedule of project covered i Start of Construction Novem Costs of pollution control sy for individual components/uni Information on actual costs s permit.) Installed of project covered in the control of the con	n this application (Construction Permit Application Only) ber 1984

	Red	queated permitted equipment operating time: hrs/day 24 ; days/wk 7	; wks/yr_ 52				
	if	power plant, hrs/yr; if seasonal, describe: This source will o	perate				
		7884 hours per year.					
			•				
• •,		this is a new source or major modification, answer the following questos or No) No - Minor modifications to major emitting facility.	ions.				
	1.	Is this source in a non-attainment area for a particular pollutant?	NO				
		a. If yes, has "offeet" been applied?					
		b. If yes, has "Lowest Achievable Emission Rate" bsen applied?					
		c. If yes, list non-attainment pollutants.					
	2.	Does best svailable control technology (BACT) apply to this source? If yes, see Section VI.	NO				
	3.	Dose the State "Prevention of Significant Deterioristion" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	NO				
	4.	Do "Standarde of Performence for New Stationary Sources" (NSPS) apply to this source?	NO				
	5.	Do "Netional Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	NO				
•		"Reaconably Available Control Technology" (RACT) requirements apply this source?	NO				
		a, If yes, for what pollutante?					
	₹.	b. If yee, 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 Incineratora)

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

	Contam	taminants Utilizat			
Description	Туре	X-Wt	Rate - lbs/hr	Relate to Flow Diagram	
Dried Limestone	Part.Matter	4-5	100,000	C	
Fines					

-				
		 f applicable:	/	
н.	PERCES K	 T ANDIIDANIA:	I YAA YAAFIAA	V
•	1 100000 1/	 . EDDITCEDIO!	/246 26667011	14 050m A/

1. Total Process Input Rate (lbe/hr): 100,000	nax. transfer rate
1. Aucal Flocesa Imput Rate (IDe/III/I	Ida Transior rate
그 그 그는 그 사이를 즐겁게 되었다. 그는 그래픽 경우 그리지 않는 그리고 하는 점점 점점 바람이라고 있다.	
2 Product Weight (164/hr).	

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

1		<u>. () </u>	<u> </u>	the property of the second of	. The free o
Name of	Emission ¹	Allowed ² Emission Rate per	Allowabla ³ Emigaion	Potential ⁴ Emission	Relate to Flow
Conteminent	Meximum Actual 15e/hr T/yr	Rule 17-2	lbv/hr	lbe/ye. T/ye	Diegram
Part.Matter	0.17 3.44 0.8* 3.0	17-2.610FAC	0.6	771 2026	Stack
* Based on 0.	015 gr/acf				
Potential Emi	ssions = 6000 acf	n × 60 min/hr	x (15 gr/acf,	7000) = 771 lbs/hr	
			3 - /	× 7884/2000	
				= 3040 tpv	·

¹See Section V, Item 2.

masses and continue

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 heet 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.)	Conteminant	Efficiency	Range of Particles Size Collected (in microna) (If applicable)	Basis for Efficiency (Section V Item 5)
Baghouse with 6.5-1	Part Matter	99.90%	> 0.5 um	Estimate
air to cloth ratio	·			
Efficiency based on i	nlet and outlet	particulate co	ncentration	
= (15 - 0.015) × 100/	15 = 99.90%			
,				

E. Fuels

ſ		Consumption*	
:	Type (Be Specific)	avg/hr max./hr	Heximum Heat Input
	None		
ſ			
ſ			

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

					• ;	
Fuel Analysiss					• • •	
Percent Sulfurs	·	Percent	Ash:		the second of	
Deneitys						
Heat Capacitys						. , .
Other Fuel Contaminants (which may c	ausecsir s	ollution') •		• .	
						·
F. If applicable, indicate the perc Annual Average Not Applicable				_	·	
G. Indicate liquid or solid wastes	generated	and meth	od of di	sposal.		
	to the c	ement pla	ant as a	raw mater	ial.	
			,			

tack Heig	ght:	150		ft. s	tack Diamete	r:		ft _. .
as Flow R	Rate: _6000	ACFH	5515	_DSCFN (ias Exit Temp	erature:	100	•F.
ater Vepo	or Content:	2-3		<u> </u>	elocity:	.3	51,8	FP S
					nai			
		SECT			ÖR INFORMATI E			
Type of	Type 0	Type I	Type II	Type II	I Type IV	Type V	Туре	VI
Wests	(Figetica)	, (KADDIGU)	(Keruse)	(Garbage	i) (Patholog- ical)	(Liq.& Gas By-prod.)	(20110)	sy-prod.)
Actual			:	·				
lb/hr Inciner-	William Control	a . Še Ok						Ten Militaria di
ated				la di Life a di cui anti				
Uncon-					and the			46
trolled lbs/hr)				777				
	Table 1	* . * * * * * * * * * * * * * * * * * *				10.074	118.57.47	10 m
	7	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		The state of the s	A STATE OF THE STA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Terror was to the	o i a dela la
				X				
				X	Design Cap	acity (150/	(fir)	
tal Weig	ht Inciner	ited (16e/h	•)		Design Cap			
tel Welg proximat nufactur	ht Inciner • Number 6 •	Eed (1be/h	r) Operation	per dey	<u>gravity</u> day/	uk <u></u>	ukd/ÿr. <u>ee</u>	er tipk
tel Welg proximat nufactur	ht Inciner • Number 6 •	Eed (1be/h	r) Operation	per dey	<u>e</u> dey/	uk <u></u>	ukd/ÿr. <u>ee</u>	er tipk
ntal Welg proximat mufactur	ht Inciner • Number 6 •	Eed (1be/h	r) Operation	per dey	<u>gravity</u> day/	uk <u></u>	ukd/ÿr. <u>ee</u>	er tipk
tal Volg proximat nufactur	ht Inciner • Number 6 •	ted (lbe/h	c) Operation	per dey	No:		wkd/ÿr. <u>;e</u>	etice
tal Welg proximat nufactur te Const	ht Inciner • Number 6 •	Esd (1be/h	c) Operation	per dey	Process day/	et de la companya de	vkd//jr. <u>;e</u>	etice
tal Welg proximat nufactur te Const	ht Inciner	ted (lbe/h	c) Operation	per dey	Ro. Fuel	et de la companya de	vkd//jr. <u>;e</u>	Turith
tal Weig proximat nufactur te Const	ht Inciner	ted (lbe/h	c) Operation	per dey	Ro. Fuel	et de la companya de	vkd//jr. <u>;e</u>	Turith
tal Welg proximat nufactur te Const rimary E	ht Inciner	Yolume	Heat R	per dey	Ro. Fuel	BTU/hr	vkd///r. <u></u>	Turith
tal Weig proximat nufactur te Const rimary E econdary ack Heig	ht Inciner	Yolume (rt)	Heat R (BTU	per dey	Ro. Fuel Type	BIU/hr Stack I	Vemper	ture.
rimary E econdary ack Heig	ht Inciner	Yolume ((t))	Heat R (BTU	per dey	Ro. Fuel Type	BTU/hr Stack I	Vemper (*)	Luc Curron
rimary C condary ack Heig	ht Inciner Number of er ructed Chamber ht: ate:	Yolume ((t))	Heat R (BTU	per dey	Ro. Fuel Type DSCFHe	BTU/hr Stack I	Vemper (*)	Luc Curron

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Briof description o	of acception observe and attended and acception of	
orra, gaacilbriou (of operating characteristics of control devices:	
Ultimete disposal d sah, etc.):	of any effluent other than that emitted from the	stack (scrubber water,
		Talah di Kabupatèn K Kabupatèn Kabupatèn K
	en de la companya de	The state of the s
e julija di karanta di	一、李、远乡、观览园,是这一一个英语,随时就像这些大大,这一大大大大大大大大大大大大大。	The second secon
NE: Items 2, 3,	4, 6, 7, 8, and 10 in Section V must be include	d where applicable.
	SECTION V. SUPPLEHENTAL REQUIREMENTS	
lesse provide the	fallowing supplements where required for this a	nolication.
to show proof o	rde. To an operation application, attach teat formation provided when apply attaction permit whall be indicative of the times Attachment L)	ing for en operation per-
	patential discharge (e.g., emission factor, th	et im AP42 test)
. With constructi trol systems (See Section IIIC and Affachment 1) on permit application, include design details of e.g., for baghouse include cloth to air reti	or all-air pollution con-
cross-section s	ketch, design pressure drop, etc.)	
. With constructi cy. Include to	See Attachment 1) on permit application, attach derivation of conset or design data. Items 2, 3 and 5 should be	ntrol device(e) efficien- consistent: ectual emis-
. An B 1/2" x 11"	at /t afficiency)	
individual oper	Lal (1-efficiency). See Section D and Attachment) flow diagram which will, without revealing tr	ede secrets, identify the
and whore finis	See Section IIID and Attachment 1) If low diagram which will, without revealing tractions and/or proceedes. Indicate where raw management, where gaseous emissions and/or airbound products are obtained.	ade secrets, identify the terials enter; where enter
and where finis () An 8 1/2° x 11° borne emissions	See Section IIID and Attachment 1) I flow diagram which will, without revealing tractions and/or proceedes. Indicate where raw makeste exit, where gaseous amissions and/or airbound products are obtained. Attachment 2) I plot plan showing the location of the establism, in relation to the surrounding area, reside	ade secrets, identify the terials enter; where eol- rne particles are evolved hment, and points of air- nces and other permanent
and where finis (. An 8 1/2° x 11° borne emission etructures and	See Section IIID and Attachment 1) If low diagram which will, without revealing tractions and/or proceeds. Indicate where raw may be set exit, where gaseous amissions and/or sirbound products are obtained. Attachment 2) If plot plan showing the location of the establism, in relation to the surrounding area, resident roadways (Examples Copy of relevant portion of (Included in original Florida Crushed Stone A	ade secrete, identify the terials enter; where eal- rne perticles are evolved hment, and points of air- nces and other permanent USGS topographic map).
and where finite (An 8 1/2" x 11" borne emissions structures and An 8 1/2" x 11	See Section IIID and Attachment 1) If low diagram which will, without revealing tractions and/or proceeds. Indicate where raw may be set exit, where gaseous amissions and/or sirbound products are obtained. Attachment 2) If plot plan showing the location of the establism, in relation to the surrounding area, residencedways (Example: Copy of relevant portion of	ade secrete, identify the terials enter; where eal- rne perticles are evolved hment, and points of air- nces and other permanent USGS topographic map). Itachment package) f manufacturing processes

Section Control of the Control of th

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9.	The appropriate application fee in accormade payable to the Department of Environ	dance with Rule 17-4.05. The check should be nmental Regulation.
10.		e, attach a Certificate of Completion of Con- as constructed as shown in the construction
		ABLE CONTROL TECHNOLOGY
ÿ-	Not Ap Are standards of performance for new sta applicable to the source?	plicable tionary sources/ pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Conteminent	Rate or Concentration
	in Maria. <u>Haran ing merupakan kemadan di kerangan di kerangan di kerangan di kerangan di kerangan di kerangan di kerang</u> an	
8.	yes, attach copy)	trol technology for this class of sources (I
	[] Yes [] Notes and the second of the seco	
	Contaminant	Rete or Concentration
	The state of the s	
	→	
c.	What emission levels do you propose se be	et evelleble control technology?
	Contaminant	Rate or Concentration
		
·		
	The second secon	graph security and the engine of the control of the
ο.	Describe the existing control and treatme	int technology (if any).
	case the electric transfer in Edward the transfer of the	2. Operating Principles:
	3. Efficiency:*	4. Capital Costs:
#Evn	plain method of determining	
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And the control of th

The second of th

5. Useful	Life:		6.	Operating Costs:	
7. Energy	t		8.	Maintenance Cost:	
9. Emissi	ons:				
	Conteminant			Rate or Concentration	
					_
		.			
10. Stack	Parameters	 -			
a. Height	•	ſt.	b.	Diameter:	t.
c. Flow R	ates	ACFH	d.	Temperatures	F.
e. Veloci	tys	FPS	Ţ.,		
E. Deacribe t	he control and treatmen onal pages if necessary)	t techno	log	y available (As many types as applicab	10,
1.	•				
a. Contro	1 Davice:		b.	Operating Principles:	
c. Effici	ency: 1		d.	Capital Costs	
e. Useful	Life:		f.	Operating Costs	
g. Energy	.2	*	h	Maintenance Costs	
i. Availa	bility of construction m	etorial	en.	nd process chesicals:	<i>:</i> .
j. Applic	ability to manufacturing	proces	3001		
	y to construct with con- proposed levels:	trol dev	ice	, install in available space, and oper	ate
2.					
e. Contro	l Device:		b.	Operating Principles:	
c. Effici	ency: ¹		d.	Capital Cost:	,
e. Useful	Life:		r.	Operating Coats	
g. Energy	, 2		h.	Haintenance Cost:	
i. Aveile	bility of construction m	eterial	a an	nd process chemicals:	
	d of determining efficie reported in units of ele		boa	der – KWH design rate.	

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- Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. Operating Principles: Control Device: Efficiency: 1 Capital Coat: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: h. Availability of construction materials and process chemicals: Applicability to manufacturing processes: k. Ability to construct with control device, install in available space, within proposed levels: Control Device: b. Operating Principles: c. Efficiency: 1 Capital Costs: Operating Cost: Useful Life: g. Energy: 2 h. Heintenence Costs 1. Availability of construction materials and process chemicals: j. Applicability to manufacturing processes: Ability to construct with control device, install in available space, within proposed levels: . Describe the control technology selected: Efficiency:1 Control Device: Useful Life: Capital Cost: Energy: 2 Operating Coat: Manufacturers Maintenance Cost: Other locations where employed on similar processes: (1) Company: **Hailing Address:**
- $^{1}\mbox{Explain}$ method of determining efficiency. $^{2}\mbox{Energy}$ to be reported in units of electrical power KWH design rate.

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(3) City:

(4) State:

	(5) Environmental Manager:	
	(6) Telephone No.:	
	(7) Emissions: 1	
	Contaminant	Rate or Concentration
	(8) Process Rate: 1	
	b. (1) Company:	
,	(2) Hailing Address:	
	(3) City:	(4) State:
		(4) States
	(5) Environmental Hanager:	
	(6) Telephone No.:	
	(7). Emiseions: ¹	
	Contaminant	Rate or Concentration
• • • •		
	(8) Process Rate: 1	
	10. Reason for selection and description	of systems:
	Applicant must provide this information whe available, applicant must state the reason(s	n evailable. Should this information not b why.
	SECTION VII - PREVENTION O Not Appli	F SIGNIFICANT DETERIORATION cable
	1. no. sites TSP	() SO ² * Wind spd/dir
		/to//
	month d	ay year month day year
	Other date recorded	
	Attach all data or statistical summeries	to this application.
	*Specify bubbler (B) or continuous (C).	
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	Instrumentation, Field and Laboratory	
	a. Was instrumentation EPA referenced or its equivalent?	Yes [] No
	b. Was instrumentation calibrated in accordance with Dep	partment procedures?
	[] Yes [] No [] Unknown	·
8.	B. Meteorological Data Used for Air Quality Modeling	
	1Year(8) of data from / / to month day year month	day year
	2. Surface data obtained from (location)	
	 Upper air (mixing height) data obtained from (location 	on)
	4. Stability wind rose (STAR) data obtained from (locati	.on)
с.	C. Computer Models Used	
-	. 1 Hodified?	If yes, attach description.
•	2 Hodified?	If yes, attach description.
	3 Hodified?	
•		If yes, attach description.
	Attach copies of all final model runs showing input data, ciple output tables.	receptor locations, and prin-
D.	D. Applicants Haximus Allowable Emission Data	
	Pollutant Emission Rate	
	TSP gr	ana/sec
- 7. - 7.	S0 ² gr	:ams/sec
٤.	E Emiasion Data Used in Modeling	
	Attach list of emission sources. Emission data required point source (on NEDS point number), UTM coordinates, stand normal operating time.	
F.	F. Attach all other information supportive to the PSD review	· •
G.	G. Discuss the social and economic impact of the selected te ble technologies (i.e., jobs, payroll, production, ta assessment of the environmental impact of the sources.	

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the requested best available control technology.

Attach scientific, engineering, and technical material, reports, publications, jour-nals, and other competent relevant information describing the theory and application of

FABRIC FILTER DATA

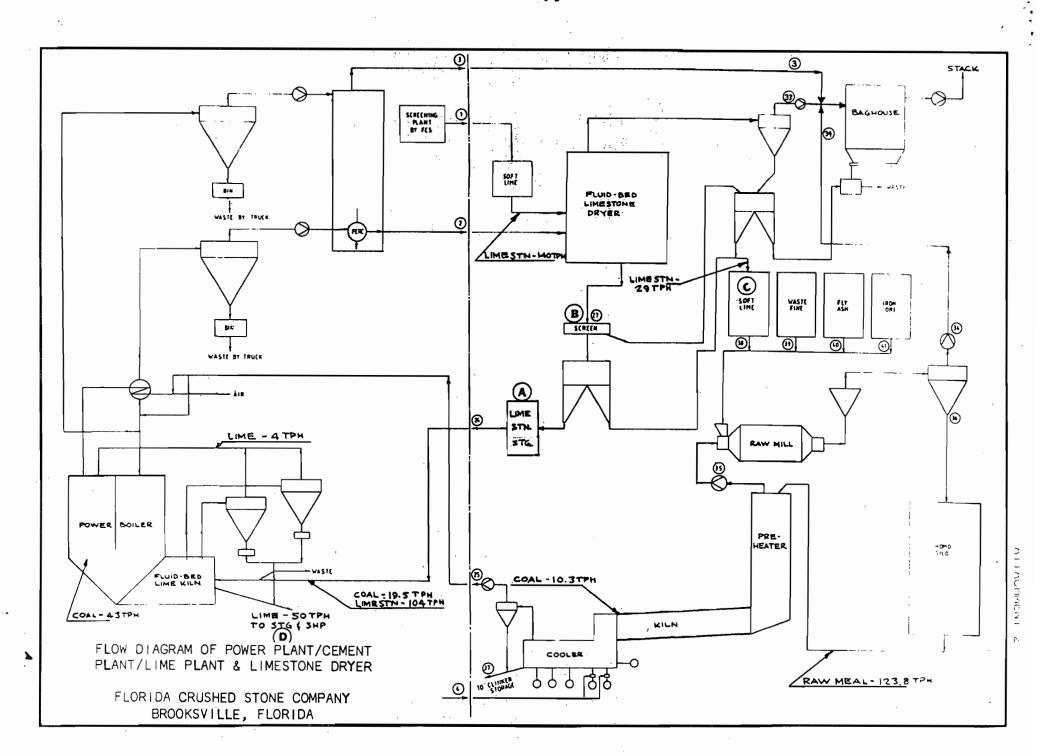
Source Limestone Fines	Storage
Type of Particulate Limestone	
Gas Flow (Acfm) 6000	
Temperature (°F) 100	
Part. Conc. (gr/Acf)15	
Collector Pressure Drop (In. H ₂ 0)	10
Fan Requirement (Hp)	20
Air/Cloth Ratio (Acfm/ft ²)	6.5
Bag Diameter (in.)	6
Bag Length (ft.)	10
Number of Bags	60
Number of Compartments	1
Filter Material	Polyester
,	Pulse Jet

Best Available Copy

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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



DER

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

> ALEX SENKEVICH DISTRICT MANAGER

AUG 9 1984 -

BAQM

APPLICATION TO XPREMATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Lime Plant	$rac{x}{x}$ New 1 [] Existing 1
APPLICATION TYPE: [XX] Construction [] O	peration [] Modification
COMPANY NAME: Florida Crushed Stone Co	mpany COUNTY: Hernando
Identify the specific emission point sourc	e(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 mile	es NW of Brooksville City Brooksville
UTM: East 360.008 km	North 3162.392 km
Latitude ° '	''N Longitude°''W
APPLICANT NAME AND TITLE: Browne Gregg, Ch	nairman and CEO
APPLICANT ADDRESS: Post Office Box 317, Le	esburg, Florida 32748
SECTION I: STATEMENT	S BY APPLICANT AND ENGINEER
A. APPLICANT	
I am the undersigned owner or authorize	ed representative* of Florida Crushed Stone Co
I certify that the statements made in permit are true, correct and complete I agree to maintain and operate the facilities in such a manner as to constatutes, and all the rules and regula also understand that a permit, if gran	
*Attach letter of authorization	
	Browne Gregg, Chairman and CEO Name and Title (Please Type)
	Date: 4/8/84 Telephone No. (904) 787-0608
B. PROFESSIONAL ENGINEER REGISTERED IN FLO	ORIDA (where required by Chapter 471, F.S.)
This is to certify that the engineerin	g features of this pollution control project hav

principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

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

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been designed/examined by me and found to be in conformity with modern engineerin

	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 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)
flo	rida Registration No. 12925 Date: 8/8/84 Telephone No. (904) 377-5822
	SECTION II: GENERAL PROJECT INFORMATION
Α.	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
8.	dioxide control. Emissions will ultimately be controlled with a baghouse to a limit more stringent than NSPS for lime plants. 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.

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Requested permitted equipment operating time: $hrs/day = 24$; $days/wk = 7$; wks/yr_5
if power plant, hrs/yr; if seasonal, describe: Plant will operate	<u> </u>
7884 hours per year	
	······································
If this is a new source or major modification, answer the following quest (Yes or No) $$ No $-$ Minor modifications to major emitting facility.	ions.
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.	
 Does best available control technology (BACT) apply to this source? If yes, see Section VI. 	NO
 Does the State "Prevention of Significant Deterioristion" (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 H
5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	NO
Do "Reasonably Available Control Tochnology" (RACT) requirements apply to this source?	NO
a. If yes, for what pollutante?	

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

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

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

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

	Contam	inants	Utilization	
Description	Туре	······································	Rate - lba/hr	Relate to Flow Diagram
Limestone	Part.Matter	2-3	208,000	A
	•			
104 tph limestone	= 98.8 tph ca	cium carbona	te and 5.2 tph in	purities.
98.8 tph calcium o	arbonate = 55	3 tph lime a	nd 43.5 tph carbo	on dioxide.
55.3 +ph lime = 50	tph product a	and 5.3 tph l	ime to power boi	er or <u>waste</u> .

8.	Process Rate, if applicables	(See Sec	tion V, Item 1)	
	1. Total Process Input Rate	(lbe/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 Haximum Actual 156/hr T/yr	Allowed Emission Rate per Rule 17-2	Allowable ³ Emlasion lbe/hr	Potential ⁴ Emission lbs/yr	Relate to Flow Diagram
Part.Matter	14.3* 56.4	0.03 lb/10 ⁶ B	TU 14.3	56,800** 223,900	Stack
so ₂	JE \$ 26.6 220			58.60 /h/ 2700	Stack
NO×	262* 1033	0.55 lb/10 ⁶ B	TU 262	262 1033	Stack
				illion BTU/hr: Tota	l emissions
from power p ** Emissions	lant/cement plant from Fluid-Bed es	lime plant c timated by La	omplex are sho ramore. Dougla	wn in Attachment 1. ss & 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 8TU heat input)

Calculated 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.)	Conteminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Baghouse with 1.5 air	Part. Matter	99.97%	>0.5 um	Estimate
to cloth ratio				
Efficiency of entire s	ystem for lime k	iln emissions		
= (56,800 - 14.3) × 10	0/56,800 = 99.97	K		

E. Fuels

ì

	Cons			
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)	
Coal	36,000	\ 39,000	476.0	
Jnits: Natural GasMMCF/h	r: Fuel Oilsca	llons/hr: Coal, wood.	refuse. otherlbs/hr.	

Percent Sulfur: 0.75 Percent Ash: 10

Density: _______lbs/gal Typical Percent Nitrogen: 1.4

Heat Capacity: 12,200 STU/lb _______ BTU/gal

Other Fuel Contaminants (which may cause air pollution): None

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

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					Stack Diamete			_ft.
as Flow R	278,600 Rate: 6 <u>92,00</u> 0	0- <u>0</u> acfm		_DSCFH	Gae Exit Temp	erature: 2	42 - 362	_eF。
ater Vapo	or Content:	8 -	16	_ %	Vělocity:	17.5 - 50	.8	FPS
· •								
		SECT		•	ATOR INFORMATI	ON	-	٠
	• • •	· 		NOT APP	LICABLE			
Type of Waste	Type 0 (Plastics)		Type II (Refuse)		III Type IV gé) (Patholog- ical)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-pro	
Actual lb/hr nciner- ated							1-	
								:
Uncon- trolled	en Miller							
(lbs/hr)	6		•					
-			r)		Deeign Cap	acity (1bs/	hr)	
proximat mufactur	e Number of	lo esuch	r) Operation	per de	Deeign Cap	wk.	wke/yr	
proximat nufactur	e Number of	lo esuch	r) Operation	per de	Deeign Cap	wk.	wke/yr	
pproximat anufactur ate Const	e Number of	Houre of	r)	per de Mod elesse /hr)	Design Cap yday/ el No. Fuel	BTU/hr	Temperature	***
oproximat mufactur ite Const	e. Number of	Houre of	r)	per de Mod elesse /hr)	Design Cap yday/ el No. Fuel	BTU/hr	hr) wke/yrage	***
proximat anufactur ite Const	e. Number of	Yolune (ft) ³	Operation Heat R (BTU	per de Mod	Design Cap y day/ ol No. Fuel Type	BTU/hr	Temperature	***
proximatinufactur ite Const	e. Number of	Yolune (ft)3	Operation Heat R (BTU	per de Mod elesse /hr)	Design Cap yday ol No. Fuel Type	BTU/hr	r) Vks/yrapino (iii) Temperature (iii)	
proximatinufactur te Const	e Number of	Yolune (ft)3	Heat R (BTU	por de Mod	Design Cap yday ol No. Fuel Type	BTU/hr Stack T	Temperature (ef)	
pproximate anufacturate Const	hamber Chamber tht:	Yolume (ft)3	Heat R (BTU	por de Mod	Design Cap y day ol No. Fuel Type DSCFMe bmit the emiss	BTU/hr Stack T	Temperature (°F)	_FP\$
Primary C Secondary tack Heig as Flow R If 50 or	e Number of er ructed hamber Chamber ht: ate: more tons p	Yolume (ft) ³	Heat R (BTU Stack Dia ACFM ign capaced to 50%	per de Mod elesse /hr) ster:	Design Cap yday el No. Fuel Type DSCFH**	BTU/hr Stack T Valocity: ions rate i	Temperature (°F)	_FP\$
Primary Constant Height River	e Number of er ructed hamber Chamber ht: ate: more tons p	Yolume (ft) ³	Heat R (BTU Stack Dia ACFM ign capaced to 50%	per de Mod elesse /hr) ster: ity, au excess yclone	Design Cap y day el No. Fuel Type DSCFH* bmit the enime eir. [] Wet Scrub	BTU/hr Stack T Valocity: ions rate i	Temperature (°F)	_FPS
pproximate anufacturate Constant Secondary tack Height Rick Height	e Number of er ructed hamber Chamber ht: ate: more tons p	Yolume (ft) ³	Heat R (BTU Stack Dia ACFM ign capaced to 50%	per de Mod elesse /hr) ster: ity, au excess yclone	Design Cap yday el No. Fuel Type DSCFH**	BTU/hr Stack T Valocity: ions rate i	Temperature (°F)	_FPS

rief description of operating characteristics of control devices:	
·	
	:
ltimate disposal of any effluent other than that emitted from the stack (sc:sh, etc.):	rubber water,
OTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where ap	plicable.
SECTION V: SUPPLEMENTAL REQUIREMENTS	
lease provide the following supplements where required for this application.	

- Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- (As shown in Section III A)

 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 Nethods 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 1116)
- 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 datails 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)
- 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 sold id 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)
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9.	The appropriate	application fee in a	ccordance with	Rule 17-4.05.	The check should be
	made payable to	the Department of Env	vironmental Requ	ılation.	

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 AVAIL	ABLE CONTROL TECHNOLOGY
Ą.	Are standards of performance for new sta applicable to the source?	tionary sources pursuant to 40 C.F.R. Part 60
	[xx] Yes [] No	
	Contaminant	Rate or Concentration
	Particulate Matter	0.6 lb/ton of feed or 62.4 lbs/hr
•		
В.	Has EPA declared the best available cont yes, attach copy)	rol technology for this class of sources (If
	[] Yes (xx) No	
	Conteminant	Rate or Concentration
	र पर्यो विकार के स्वर्ण के स्व र प्रति के स्वर्ण के स्वर्ण के स्वर्ण के	THE COURSE OF TH
c.	What emission levels do you propose as be	•
	Contaminant	Rate or Concentration
	Particulate Matter	0.03 lb/million BTU or 14.3 lbs/hr
		
	and the second of the second o	the statement of the st

- D. Describe the existing control and treatment technology (if any).
 - 1. Control Device/Systems
- 2. Operating Principles:

3. Efficiency:*

4. Capital Costs:

1. 3.11.1

*Explain method of determining

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Useful Life: 6. Operating Costs: 7. Energy: 8. Maintenance Cost: 9. Emissions: Contaminant Rate or Concentration 10. Stack Parameters ft. Diemeters ft. b. Height: Flow Rate: ACFH d. Temperatures OF. FPS Velocitys Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). l. Control Device: b. Operating Principles: Efficiency: 1 d. Capital Cost: c. Useful Life: f. Operating Cost: Energy: 2 h. Maintenance Cost: · q 。 Availability of construction meterials and process chemicals: j. Applicability to manufacturing processes: Ability to construct with control device, install in svailable space, and operate within proposed levels: 2. Control Device: Operating Principles: Efficiency: 1 d. Capital Coat: Useful Life: Operating Coat: Energy: 2 h. Maintenance Cost: i. Availability of construction materials and process chemicals: ¹Explain method of determining efficiency. $^{
m Z}$ Energy to be reported in units of electrical power – KWH design rate.

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Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: Operating Principles: Efficiency: 1 Capital Cost: Useful Life: f. Operating Cost: Energy: 2 Maintenance Cost: α. Availability of construction materials and process chemicals: Applicability to manufacturing processes: j٠ Ability to construct with control device, install in available apace, and operate within proposed levels: 4. Control Device: Operating Principles: c. Efficiency: 1 Capital Coats: Operating Cost: Useful Life: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: 2. Efficiency:1 Control Device: 3. Capital Cost: Useful Life: Energy: 2 5. Operating Coat: Manufacturer: Maintenance Cost: Other locations where employed on similar processes: (1) Company: (2) Mailing Address: (3) City: (4) State: Explain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH deaign rate.

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	(5) Environmental Manager:					,e
	(6) Telephone No.:					,
	(7) Emissions: 1					
	Contaminant			Rate or	Concentratio	n .
_						
_						
	· · · · · · · · · · · · · · · · · · ·					
	(8) Process Rate: 1					
	b. (1) Company:					
	(2) Mailing Address:					
	(3) City:		(4) State	9:		
	(5) Environmental Manager:					
	(6) Telephone No.:					
	(7) Emissions: 1					
	Contaminant			Rate or	Concentratio	n
					_	· .
	(8) Process Rate: 1					
	10. Reason for selection and	description	of systems	3 t		
	plicant must provide this info ailable, applicant must state t			e. Shoul	d this inform	etion not b
	SECTION VII - P	REVENTION O	F SIGNIFICA	ANT DETERI	ORATION	
Α.	Company Monitored Data	NOT A	PPLICABLE			
	1no. sites	TSP _	· () so ² * _	Wi	nd spd/dir
	Period of Monitoring				/ / day year	
	Other data recorded		·			
	Attach all data or statistical	summeries	to this app	olication.		
# Sp	ecify bubbler (8) or continuous	(C).				
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1

•

	2.	. Instrumentation, Field and Laboratory	
	a.	. Was instrumentation EPA referenced or its e	quivalent? [] Yes [] No
	ь.	. Was instrumentation calibrated in accordance	with Department procedures?
		[] Yes [] No [] Unknown	
В.	Met	steorological Data Used for Air Quality Modelia	g
	1.	Year(s) of data from / / month day year	to / / 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 fro	m (location)
:.	Com	mputer 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.
		tach copies of all final model runs showing is ple output tables.	
} 。	App	plicants Maximum Allowable Emission Data	
	Pol	llutant Emission Rate	
		TSP	grams/sec
	9	so ²	grama/sec
	Emis	ission Data Used in Modeling	
	poi	tach list of emission sources. Emission data int source (on NEDS point number), UTM coordi d normal operating time.	
	Att	tach all other information aupportive to the F	SD review.
•	ble	scuss the social and economic impact of the se e technologies (i.e., jobs, payroll, produc sessment of the environmental impact of the se	tion, taxes, energy, etc.). Include

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the requested best available control technology.

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

SHOLIES **X** KOO

INTERNAL AND STACK GAS FLOW RATES AND TEMPERATURES AND AIR POLLUTANT EMISSION RATES FOR VARIOUS OPERATING CONDITIONS

....

FLORIDA CRUSHED STONE COMPANY BROOKSVILLE, FLORIDA

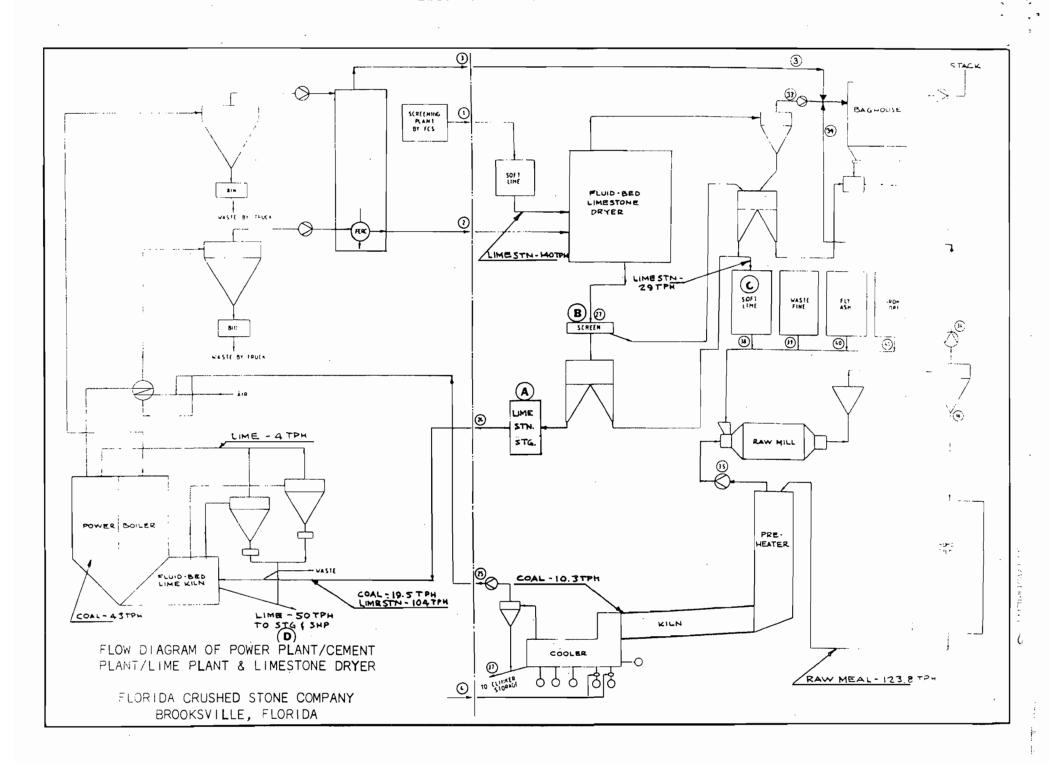
			Gas Stream (2)				Stack Gas					
Case	Operating Units (1)	Flow (ACFM)	Temp (°F)	Flow (ACFM)	Temp (°F)	Flow (ACFM)	(°F)	Flow (ACFM)	Temp (°F)	50 ₂ (1b/ħr)	NOx (b/hr: (P.M. (Ib/hr)
1	Power	420,000	330	0		0	_	420,000	330	750	846	37.0
2	Power/lime	471,290	355	Ò	_	0	_	471,290	355	750	846	46.1
3	Power/lime/cement	532,459	403	Ö	_	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

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	ParticulateL	imestone/	flyas	sh			
Gas Flo	ow (Acfm)6	92,100 ma	×				
Τe	emperature (°F) 2	42 - 365					
	art. Conc. (gr/Acf)						
Collect	or Pressure Drop (I	n. H ₂ O)		6			
	n Requirement (Hp)			2700		· .	
Αi	r/Cloth Ratio (Acfm,	/ft ²)		1.5	<u>-</u>		
Ba	ag Diameter (in.)	_		12			
Ba	ag Length (ft.)			37	, -		
Nυ	umber of Bags	· · · · · · · · · · · · · · · · · · ·		3876			
Nu	umber of Compartments	S		34			
Fi	lter Material		Teflo	on coated	fiberglass		
CI	eaning Method		Rever	rse air; v	ariable cyc	le	



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

A CONTRACTOR OF THE PARTY OF TH

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



DER

BOB GRAHAM

AIIG 9 1984 VICTORIA J. TSCHINKEL SECRETARY

ALEX SENKEVICH DISTRICT MANAGER

BAQM

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Limestone Bin for Lime Fi		
APPLICATION TYPE: [xx] Construction [•	
COMPANY NAME: Florida Crushed Stone Co		
Identify the specific emission point so	rce(s) addressed in	this application (i.e. Lime
Kiln No. 4 with Venturi Scrubber; Peakin	g Unit No. 2, Gas Fi	red) Limestone Storage Bin
SOURCE LOCATION: Street Cobb Rd.; 2 mi	NW of Brooksviile	最高的,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年
		rth 3.62.010 km
Latitude	''N Lo	ngi tude """
APPLICANT NAME AND TITLE: Browne Gregg.	• .	
APPLICANT ADDRESS: Post Office Box 317,	Leesburg, Florida	32748
SECTION I: STATEME	HTS BY APPLICANT AND	ENGINEER.
A. APPLICANT		
I am the undersigned owner or author	ized representative	e Florida Crushed Stone Co.
I certify that the statements made	And the second s	
permit are true, correct and complet	e to the best of my	knowledge and bellet. Further
Lagree to maintain and operate t facilities in such a manner as to	comply with the pro	vision of Chapter 403. Florid
Statutes, and all the rules and regulation also understand that a permit, if g	lations of the depar ranted by the depar	tment and revisions thereof, ment, will be non-transferabl
and I will promptly notify the department.	tment upon sale or	legal transfer of the permitte
*Attach letter of authorization	Signed: John	
"Attach letter of authorization	Browne Gregg, Ch	
		tle (Please Type)
	* / / *	Telephone No. (904) 787-0608
B. PROFESSIONAL ENGINEER REGISTERED IN	FLORIDA (where requi	red by Chapter 4/1, F.S.
This is to certify that the engineer been <u>वस्थांक्रास्</u> व/examined by me and f	ing features of this	pollution control project have
principles applicable to the treatme	ent and disposal of	pollutants characterized in ti-
permit application. There is reaso	nable assurance, in	my brotessionar ladgment, thi

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

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	pollution sources.		Signed	Koogler, Ph.	D. P.F.		
	10 E 10 I		Sholtes	Koogler, E	y Name (Plea	Consultant Consultant	S
	A TONING	•	1213 NW	6th Street, Meilin		FL 32601	
lor	ida Registration No.	12925	Deter_8	18184	Telephone No	• <u>(904) 377-</u>	5822
:- <u>4:</u> :}	De le transfer germe, per en en en	SECTION II	e GENERAL	PROJECT INFO	RNATION		
F_{γ}, q^{\prime}	plant at the Flori will be controlled	Barto Walter	· 4-12年8月1日1日1日	1 1945 (HESS)	الميان المراجعة والمواجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة الم المراجعة المراجعة ال	12.5 · 12. · 14.	issid
					altinos - Line		
wir (Schedule of project Start of Construction						1 L
		control eyet		ject serving	pollution (control purp	
	Costs of pollution for individual compoint on setue permit.)			shed with th	e abbiiceti	n for opera	
	for individual compo Information on actu- permit.)		ll be furni		e application	on for opera	
	for individual compo Information on actu- permit.)	il costs she	ll be furni		e applicatio	on for opera	
	for individual compo Information on actu- permit.)	il costs she	ll be furni		e applicatio	on for opera	
	for individual compo Information on actu- permit.)	il costs she	ll be furni		e applicatio	on for opera	
	for individual compo Information on actua permit.)	stailed Cos	11 be furni st - \$151,20	00			ion 7
	for individual compo Information on actu- permit.)	stailed Cos	11 be furni st - \$151,20 te, ordere	and notices			ion 7

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Requested permitted equipment operating time: hrs/day_24 ; $days/wk_7$; wks/yr_52
if power plant, hre/yr; if seasonal, describe: This source will c	perate
7884 hours per year.	
	•
If this is a new source or major modification, answer the following que (Yes or No) No - Minor modifications to major emitting facility.	etione.
1. Is this source in a non-attainment area for a particular pollutant?	NO
e. If yes, hes "offset" been epplied?	
b. If yes, has "Lowest Achievable Emission Rate" been applied?	
c. If yes, listenon-etteinment pollutents.	and the state of t
 Dose best evailable control technology (BACT) apply to this source? If yes, see Section VI. 	NO
3. Does the State "Prevention of Significant Deterioristion" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	NO
4. Do "Standards of Performence for New Stationary Sources" (NSPS) apply to this source?	NO =
5. Do "Netional Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	NO
Do "Reasonably Aveilable Control Technology" (RACT) requirements apply to this source?	NO
e. If yes, for what pollutente?	
b. If yes, in addition to the information required in this form,	

'Attach all supportive information related to any answer of "Yes". Attach any justification for any enswer 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:

	Contemi	nents	Utilization			
Description	Type	X-Wt	Rate - lbe/hr	Relate to Flow Diegram		
Limestone	Part. Matter	2.3	800,000 max	A		
				TO BOOK SEE TO SEE THE		
,						

Δ .	0	A - A -			10 C L 1		TA T	
٠.	LIOCGES	KETO,	71	ebbrscepre:	(See Section	₹,	Trem Ti	

·1.	- Total Process	Input Rete	(lbe/hr)	800,00	0 max. tran	isfer rate	_
2.	Product Weigh	t (lba/hr):	e :	800,000			

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

Name of	Emission ¹	Allowed ² Emission Rate per		Potential ⁴ Emission	to Flow
Contaminant	Heximum Actuel 1/yr	Rule 17-2	lbe/hr	lbe/yr	Diegree
Part Matter	2* 4.6	17-2.610FAC	1:-2	. 771 2 2040 🦫	S tac k
*Based on 0.0	l5 gr⊄ácf.	•			
Potential Em	issions = 9000 cfm	× 60 min/hr	× (10 gr/acf/	7000) b/ft ³ = 771	s/hr
				× 7884/	2000
				= 3040	тру.

¹ See 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)

Calculated from operating rate and applicable standard.

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

Ω.	Control	Devices:	(500	Section	V	Item	Δ,	١
υ.	COULTOI	DOATCORE	(300	30667011	٠.	1.004		,

Name and Type (Model & Serial No.)	Conteminent	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Baghouse with 6.5-1	Part.Matter	99.85%	>0.5 um	Estimate
air to cloth ratio				
.,				
Efficiency based on in	let and outlet	particulate co	centration	
$= (10 - 0.015) \times 100/3$	0 = 99.85			
	·			

E. Fuols

	Consum	ption*	<u> </u>		
Type (Be Specific)	evg/hr mex./hr		1.5	Maximum Heat Input (HMBTU/hr)	
None					
			,		
n de la companya de l					
	to the state of th				

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

Fuel Analysiss		Percent Ash:	
Deneitye			
Heat Capacity:	BTU/16		BTU/gal
Other Fuel Conteminants (which may can be seen to be seen the percent of the perc	ent of fue	l used for apace heating.	
G. Indicate liquid or solid wastes g Fines collected in the baghouse wi	jenerated	and method of disposel.	

•	Jac:	100		ft.	Stack Die	meter:		2.5	ft.
as Flow R	9000	ACFH	8020	_DSCFH	Gee Exit	Temper	ature:	120	• F
eter Yepo	r Content:	2.3		<u> </u>	Vělocitys		30.6	<u> </u>	FP
					m of m c.g.				
		SECT			ATOR INFOR				
٠.	· · · · · · · · · · · · · · · · · · ·	<u> </u>			BLE.,		· · · · · · · · · · · · · · · · · · ·	1	· · · · · · · · · · · · · · · · · · ·
Type of Waste	Type 0 (Plastics)	Type I. (Rubbieh)	Type II (Refuse)	Type (Garba	III Type ge) (Petho	IV plag- (Type V Liq.& Gas By-prod.)	Typ (Solid	e VI By-prad.)
Actual lb/hr nciner-									
ated			•	i Siziri					
Uncon- trolled							•		1900 22 76 2014
lbe/hr)					mander (m. er		-		
tel Weig	ht Incinera				Deelga				
proximat nufactur	ht Incinera	ted (1be/h	r) Operation	pet de	Deelgn Y Lange	Cepec day/wk	1ty (166/	hr)_ wko/yr.;	nes (alle le
proximat mufactur	ht Incinera • Number of er ructed	ted (16e/h	r) Operation	pet de	Deelgn	Cépac day/wk	ity (164/	hr) wko/yr. <u>;</u>	erne to Archive
proximat mufactur	ht Incinera • Number of er ructed	ted (1be/h	r) Operation	pet de	Deelgn X Early el No.	day/wk	14, (164/	hr) wka/yr.j	ente la Richard
proximat mufactur te Const	ht Incinera	ted (16e/h	r) Operation	pet de	Design	day/wk	14, (164/	hr) wka/yr.j	ent land (deide
proximat nufactur te Const	ht Incinera	ted (16e/h	r) Operation	pet de	Design	day/wk	14, (164/	hr) wka/yr.j	ente la Richard
proximatinufacturite Const	ht Incinera Number of er ructed hamber	ted (1be/h Hours of Yolune (ft) ³	Cperation Heat R (BTU	pet de	Design V. Communication Type	day/wk	Ity (16e/	hr) wka/yr.; Temper	eture (F)
proximation of the Constitute Con	ht Incinera Number of er ructed hamber Chamber	Volume (ft)	Cperation Heat R (BTU	pec da	Design V. Land	day/wk	Ity (16e/	Temper	eture (F)
Primary Elector Recordery Recordery Recorder Rec	ht Incinera Number of er ructed hamber	Volume (ft)	Heat R (BTU Stack Dia ACFH	pec de	Type DSC	Epac day/wk	Ity (16a/	Temper	eture (F)
rimary E econdary ack Height Flow Ref f 50 or order of cubic	ht Incinera Number of er ructed hamber Chamber ht: ate:	Volume (ft)3 ft. er day dee	Heat R (BTU Stack Dia ACFH Ign capec ed to 50x	pec da	Type DSC balt the earr	Fuel B	Ity (16e/	Temper	eture (F)

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Brief	description of operating characteristics of control devices:
	nate disposal of any effluent other than that emitted from the stack (scrubber water, etc.):
NOTES	Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.
	SECTION V: SUPPLEHENTAL REQUIREMENTS
Plose	e provide the following supplements where required for this application.
2. T t a p t	otal process input rate and product weight show derivation [Rule 17-2.100(127)] (As shown in Section III A and B) (As a construction application, attach basis of emission astimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed sethods (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 in the proof of compliance. Information provided when applying for an operation persit from a construction persit shall be indicative of the time at which the test was lade. (See Attachment 1)
•	ttach basis of potential discharge (e.g., emission factor, that is, AP42 test). (See Section IIIC and Attachment 1) ith construction permit application, include design details for all six pollution con-

4. With construction permit application, include design detailenter all air pollution control systems (e.g., for beginnes include cloth to air ratio; for acrubber include cross-section sketch, design pressure drop, etc.)

(See Attachment 1)

5. With construction permit application, attach derivation of control device(e) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual smissions a 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 sirborne emissions, in relation to the surrounding area, residences and other permanent structures and readways (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 abowing the location of manufacturing processes
and outlets for airborne amissione. Relate all flows to the flow diagram.

(Included in original Florida Crushed Stone Attachment package)

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9.	The appropriate application fee in accordance payable to the Department of Environ	dance with Rule 17-4.05. The check ahould be mental Regulation.
10.		, attach a Certificate of Completion of Con- as constructed as shown in the construction
Ņ.	Not Ap	ABLE CONTROL TECHNOLOGY plicable Elongry sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Contaminant	Rate or Concentration
		The state of the s
В.	Has EPA declared the best available cont yes, attach copy)	rol technology for this class of sources (I)
	[] Yes [] No	
	Conteminant	Rate or Concentration
		A CONTRACT OF STREET OF ST
- 14 2	The state of the s	
c.	What emission levels do you propose as be	
	Contaminant	Rate or Concentration
<u> </u>		
	ing the second of the second o	The state of the s
	AND AND THE STORY OF THE STORY	
	Describe the existing control and treatme	nt technology (if any).
,	man to the place of the contract of	2. Operating Principless
	J. Efficiency: *	4. Capital Coata:
*Exp	olain method of determining	
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	5.	Useful Life:		6.	Operating Costs:	
	7.	Energy:		8.	Maintenance Cost:	
	9.	Emissions:				ş
		Contaminant			Rate or Concer	itration
	_					
					<u> </u>	
				-		·
	10.	Stack Parameters				
	ė.	Height:	ſt.	ь.	Diameter:	· ft.
	c.	Flow Rate:	ACFH	d.	Temperature:	•F.
	è.	Velocity:	FPS			* a
E.		cribe the control and treatment additional pages if necessary).		alog	y available (As many t	ypes as applicable
	1.	•				
	٠.	Control Device:		b.	Operating Principles:	
	c.	Efficiency: 1	-	ď,	Cepital Cost:	
	e.	Useful Life:		f.	Operating Coats	
	ïg.	Energy: ²	•	,h.	Haintenance Costs	
	i.	Availability of construction ma	terial	Ls en	d process chemicals:	
	j -	Applicability to manufacturing	broce.	8688		
	k.	Ability to construct with contract within proposed levels:	rol de	vice	, install in available	space, and operat
	2.					
	8.	Control Device:		ь.	Operating Principles:	
	c.	Efficiency: 1		d.	Capital Cost:	
	•.	Useful Life:		f.	Operating Coats	
	g.	Energy: ²		h.	Maintenance Cost:	
	i.	Aveilability of construction ma	teria	le en	d process chemicals:	
		n method of determining efficien to be reported in unitm of elec		l pow	er - KWH design rate.	v

7.3

.....

Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: b. Operating Principles: Efficiency: 1 Capital Cost: Useful Life: f. Operating Cost: Energy: 2 h. Maintenance Cost: g. Availability of construction materials and process chemicals: Applicability to manufacturing proceases: Ability to construct with control device, install in available space, and operate within proposed levels: Control Device: Operating Principles: a. Efficiency: 1 Capital Coste: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicales Applicability to manufacturing processes: Ability to construct with control device, install in available epace, and operate within proposed levels: f. Describe the control technology selected: Efficiency: 1 1. Control Device: Useful Life: 13. Capital Cost: 5. Operating Cost: Energy: 2 7. Maintenance Cost: Manufacturer: 9. Other locations where employed on similar processes: (1) Company: Mailing Address: (3) City: (4) State: ¹Explain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH design rate. DER Form 17-1.202(1)

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(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Conteminant	Rate or Concentration
<u> </u>	
(8) Process Rate: 1	
b. (1) Company:	
(2) Mailing Addreas:	
(3) City:	(4) State:
(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Conteminant	Rete or Concentration
(8) Process Rate: 1	
10. Reason for selection and description	n of systems:
	B) why. OF SIGNIFICANT DETERIORATION
A. Company Monitored Data	icable
1no. siteaTSP	() SO ² * Wind spd/dir
Period of Monitoring / month	day year month day year
Other data recorded	·
Attach sll date or statistical summaries	to this application.
*Specify bubbler (8) or continuous (C).	
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· (50003).

NOON.

	2. Instrumentation, F.	ield and Laboratory			
	a. Was instrumentation	n EPA referenced or it	s equivalent?	[] Yes []	No
	b. Was instrumentation	n calibrated in accord	ance with Dep	artment proced	ures?
	[] Yes [] No [] Unknown			
8.	Meteorological Data Use	ed for Air Quality Mod	eling		
	1 Year(s) of de	ata from // /month day y	ear month	day year	
	2. Surface data obtain	ned from (location)		·	
	 Upper air (mixing t 	height) data obtained	from (locatio	n)	<u> </u>
	4. Stability wind rose	e (STÀR) data obtained	from (locati	on)	
c.	Computer Models Used				
	1.		Modified?	If yes, atta	ch description.
	2.	· <u>·</u>	Modified?	If yes, atts	ch description.
	3.		Modified?	If yes, atta	ch description.
	4.	· .	Hodified?	If yes, atta	ich description.
	Attach copies of all ficipls output tables.	inal model runs ehowin	g input data,	receptor loca	tions, and prin-
D.	Applicante Maximum Allo	owable Emission Data			
	Pollutant	Emiasion Rate			
	TSP	·	gr	ams/sec	
	so ²	* •	gr	ama/sec	
Ε.	Emission Data Used in N	lodeling			
•	Attach list of emission point source (on NEDS)				

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, reporta, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

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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. H ₂ O)	11
Fan Requirement (Hp)	30
Air/Cloth Ratio (Acfm/ft ²)	6.5
Bag Diameter (in.)	
Bag Length (ft.)	10
Number of Bags	90
Number of Compartments	1
	Polyester
Cleaning Method	

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUIRĖ BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



DER

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

> ALEX SENKEVICH DISTRICT MANAGER

MOAE

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Lime Storage Silo [x] Newl [] Existingl
APPLICATION TYPE: $[\times]$ Construction $[\cdot]$ Operation $[\cdot]$ 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, Florid 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 permittent establishment. *Attach letter of authorization Signed: Browne Gregg, Chairman and CEO Name and Title (Please Type) Date: 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 hav been designed/examined by me and found to be in conformity with modern engineerin 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)

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pollution sources.	
W. Comment	Signed
3330	John B. Koggler, Ph.D., #.E. Name (Please Type)
AND NO. 12	Sholtes & Koogler, Environmental Consultants
6.398	Company Name (Please Type)
	1213 NW 6th Street, Gainesville, FL 32601
A H Same	Mailing Address (Please Type)
orida Registration No	o. 12925 Date: <u>8/8/84</u> Telephone No. (904) 377-5822
	SECTION II: GENERAL PROJECT INFORMATION
	t will result in full compliance. Attach additional sheet if
necessary.	
Baghouse to contro	ol emissions from a lime storage silo. Maximum transfer rate to tooh. Particulate emissions will be controlled by a baghouse with a
Baghouse to control silo will be 50 tp	ol emissions from a lime storage silo. Maximum transfer rate to to the controlled by a baghouse with a
Baghouse to contro	ol emissions from a lime storage silo. Maximum transfer rate to to the controlled by a baghouse with a
Baghouse to control silo will be 50 tp	ol emissions from a lime storage silo. Maximum transfer rate to to the controlled by a baghouse with a
Baghouse to control silo will be 50 tp 6.5-1 air to cloth Schedule of project	ol emissions from a lime storage silo. Maximum transfer rate to to the ph. Particulate emissions will be controlled by a baghouse with a natio.
Baghouse to control silo will be 50 to 6.5-1 air to cloth Schedule of project Start of Constructi Costs of pollution for individual comp Information on actu permit.)	covered in this application (Construction Permit Application Only ton November 1984 Completion of Construction October 1986 control system(s): (Note: Show breakdown of estimated costs only conents/units of the project serving pollution control purposes.
Baghouse to control silo will be 50 to 6.5-1 air to cloth Schedule of project Start of Constructi Costs of pollution for individual comp Information on actu permit.)	covered in this application (Construction Permit Application Only) and November 1984 Completion of Construction October 1986 control system(s): (Note: Show breakdown of satimated costs only) conents/units of the project serving pollution control purposes.
Baghouse to control silo will be 50 to 6.5-1 air to cloth Schedule of project Start of Constructi Costs of pollution for individual comp Information on actu permit.)	covered in this application (Construction Permit Application Only ton November 1984 Completion of Construction October 1986 control system(s): (Note: Show breakdown of estimated costs only conents/units of the project serving pollution control purposes.
Baghouse to control silo will be 50 to 6.5-1 air to cloth Schedule of project Start of Constructi Costs of pollution for individual comp Information on actu permit.)	covered in this application (Construction Permit Application Only ton November 1984 Completion of Construction October 1986 control system(s): (Note: Show breakdown of estimated costs only conents/units of the project serving pollution control purposes.

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c.

D.

7884 hours per year.		
If this is a new source or major modification, enswer (Yes or No) No - Minor modifications to major emitt		ions.
1. Is this source in a non-attainment area for a par	,	NO
a. If yes, has "offset" been applied?		
b. If yes, has "Lowest Achievable Emission Rate"	been applied?	
c. If yes, list non-attainment pollutants.		
 Does best evailable control technology (BACT) app If yes, see Section VI. 	ly to this source?	NO
 Does the State "Prevention of Significant Deterior requirement apply to this source? If yes, see Se 		NO .
4. Do "Standards of Performence for New Stationary Sapply to this source?	ourcee ^a (NSPS)	NO
5. Do "National Emission Standards for Hazardous Air (NESHAP) apply to this source?	Pollutanta"	NO
Do "Reasonably Available Control Tachnology" (RACT) r to this source?	equirements apply	NO
a. If yes, for what pollutents?		

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:

	Contami	Inents	Utilization	Relate to Flow Diagram	
Description	Туре	% Wt	Rate - lbs/hr		
Lime	Part. Matter	3-4	100,000	D	
			,		

B. P1	rocess	Rate,	if	applicables	(See	Section	٧,	Item	1))
-------	--------	-------	----	-------------	------	---------	----	------	----	---

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

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

Name of	Emission ¹	Allawed ² Emission Rate per	Allowable ³ Emigaion	Potential ⁴ Emission	Relate to Flow
Contaminant	Maximum Actual 1bs/hr T/yr	Rule 17-2	lbe/hr	lbs/yr T/yr	Diagram
Part.Matter	8.6* 2.43	17-2.610FAC	0.6	64 3780	Stack
*Based on 0.	015 gr/acf			*	
Potential Em	issions = 5000 act	m × 60 min/h	x (20 gr/acf	/7000) = 853 lbs/hr	
, , , , , , , , , , , , , , , , , , , ,	·			× 7884/2000	
		. = "		= 3780 †py	

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.)	Conteminant	Efficiency	Range of Particlea Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Baghouse with 6.5-1	Part. Matter	99.93%	> 0.5 um	Estimate
air to cloth ratio				
				·
Efficiency based on i	nlet and outlet	particulate co	ncentration	
= (20 - 0.015) × 100/	20 = 99.93%			

E. Fuels

	Consump	tion*	
Type (Be Specific)	avq/hr	max./hr	Meximum Heet Input (MMBTU/hr)
None			·
	·		
	·		

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

Fuel Analysis:			
Percent Sulfurs	······································	Percent Ash:	
Density:	lbs/gal	Typical Percent Nitrogen:	
Heat Capacity:	BTU/16		BTU/gal
Other fuel Contaminants (which may F. If applicable, indicate the per Annual Average Not Applicable	cent of fue	l used for space heating.	
G. Indicate liquid or solid wastes Lime will be retur	generated	and method of disposal.	

Stack Heig	jht:	200		ft. s	tack Diamet	er: 1.5	f(
•						perature:	
fater Vapo	r Content:	2-3		_	elocity:	47.2	
•				 -	• •		
· .		SECT		INCINERAT PPLICABLI	OR INFORMAT	ION	
Type of Waste					I Type IV) (Patholog ical)		Type VI (Solid By-prod.
Actual 1b/hr Inciner- ated							
Uncon- trolled (lbs/hr)	egyar tarak						·
escriptio	n of Waste						<u> </u>
otal Weig	ht Incinera	ted (lbe/h	r)		Design Ca	pacity (168/	/hr)
pproximat	e Number of	Hours of	Operation	per day	day	/wk	wke/yr.
	i .	•					en la variable with
A 100 Miles				· · .			ing the second s
*******		and the second	* **		Type -		
		Volume (ft) ³	Heat Re (BTU)	olease /hr)	Type Fue	1 8TU/hr	Temperature (°F)
Primary C	hamber						
	Chamber				T		
tack Heig	hts	ft。	Stack Diam	aters <u></u>		Stack 1	emp
s Flow R	ates		ACFH	e e	DSCFM*	Velocity: _	F
	more tone p					sione rate :	in graina per eta
pe of po	llution con	trol devic	ei [] C	yclone [] Wet Scru	bber [] Ai	terburner
			() n	ther (soe	attu)		

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COMPAND OF

BEST AVAILABLE COPY

Br:	of Jascription of operating characteristics of control devices:
U1 t	imate disposal of any effluent other than that emitted from the stack (scrubber water.
	, etc.):
OTI	E: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.
	SECTION V8 SUPPLEHENTAL REQUIREMENTS
le	see provide the following supplements where required for this application.
•	Total process input rate and product weight show derivation [Rule 17-2.100(127)]
	(As shown in Section III A and B) To a construction application, attach basis of emission estimate (e.g., design calcula-
•	tions, design drawings, partinent 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 ap-
	plicable 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).
•	Attach basis of potential discharge (e.g., smission factor, that ie, AP42 test). (See Section IIIC and Attachment 1)
•	With construction permit application, include design detailenfor all air pollution con-
	trol systems (e.g., for beghouse include cloth to air ratio; for scrubber include
	cross-section eketch, design pressure drop, etc.)
	(See Attachment 1) With construction permit application, attach derivation of control device(s) efficien-
•	cy. Include test or design data. Itsms 2, 3 and 5 should be consistent: actual emis-
	eions = potential (1-efficiency).
	(See Section IIID and Attachment 1) An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the
•	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 sol-
	individual operations and/or processes. Indicate where rew materials enter, where sol- id and liquid waste exit, where gaseous emissions and/or airborne particles are evolved
	and where finished products are obtained.
	(Attachment 2)
•	The same part part and the same and the same and the same part and part and part and part and part and part and the same a
	borne emissions, in relation to the surrounding area, residences and other permenent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
	(Included in original Florida Crushed Stone Attachment package)
•	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.
ER	(Included in original Florida Crushed Stone Attachment package)

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10.		, attach a Certificate of Completion of Co			
	struction indicating that the source was permit.	sa constructed as shown in the constructi			
		ABLE CONTROL TECHNOLOGY			
A -	Are standards of performance for new state applicable to the source?	plicable tionary sources/ pursuant to 40 C.F.R. Part			
	[] Yes [] No .				
	Conteminent	Rate or Concentration			
В.	. Has EPA declared the best available control technology for this class of sources (I yes, attach copy)				
	[] Yes [] No '				
	Contaminant	Rate or Concentration			
		# ####################################			
	The Charles of Bright State of the Control of the C	the second secon			
,	- The Annual Manual Annual br>	 ইন্টিলি টি.মেল্ড কিলেটক কিলেটক বিল্ ক্ষালি টি.মেলক কিলেটক কিলেটক বিল			
c.	What emission levels do you propose as be	st evailable control technology?			
	Contaminant	Rate or Concentration			
-					
		A Company of the Comp			
•		The second control of			
•,	A Company of the Comp				
D.	Describe the existing control and treatme	nt technology (if any).			
•	140 Control Device/System:	2. Operating Principles:			
	3. Efficiency:*	4. Capital Costs:			
•Exp	lain method of determining				
	Form 17-1.202(1) ective November 30, 1982 Page	8 of 12			
	•				

5. Useful Life: Operating Costs: 7. Energy: 8. Maintenance Cost: 9. Emissions: 7 Conteminent Rate or Concentration 10. Stack Parameters ft. b. Diameter: Pt. Height: ·F. Flow Rate: ACFH d. Temperature: FPS Velocity: Describe the control and trestment technology available (As many types as applicable, use additional pages if necessary). 1. Control Device: b. Operating Principles: Efficiency: 1 Capital Coats Useful Life: Operating Costs Energy: 2 h. Maintenance Costs . g . Availability of conetruction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 2. Control Device: Operating Principles: Efficiency: 1 Cepitel Cost: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: ¹Explain method of determining efficiency. 2 Energy to be reported in units of electrical power – KWH design rate.

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Applicability to manufacturing processes: Ability to construct with control device, install in svailable space, and operate within proposed levels: 3. Control Device: a. b. Operating Principles: Efficiency:1 c. d. Capital Cost: Useful Life: ٠. Operating Cost: Energy: 2 h. Maintenance Cost: q. Availability of construction materials and process chamicals: Applicability to manufacturing processes: j. Ability to construct with control device, install in available space, and operate k. within proposed levels: Control Device: Operating Principles: C: Efficiency: 1 Capital Costs: Operating Cost: Ussful Life: · f. Energy: 2 h. Maintenance Cost: q. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: 1. Control Device: 2. Efficiency:1 Capital Cost: 3. Useful Life: Operating Cost: Energy: 2 7. **Haintenance Cost: Menufacturer:** Other locations where employed on similar processes: (1) Company: (2) Mailing Address: (3) City: (4) State:

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 1 Explain method of determining efficiency.

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

(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Conteminant	Rate or Concentration
(8) Process Rate:1	
b. (1) Company:	
(2) Mailing Address:	
(3) City:	(4) State:
(5) Environmental Hanager:	
(6) Telephane Na.:	
(7) Emissions: 1	
Conteminant	Rate or Concentration
(8) Process Rate: 1	
10. Reason for selection and	d description of systems:
Applicant must provide this infavailable, applicant must state	
SECTION VII -	PREVENTION OF SIGNIFICANT DETERIORATION Not Applicable
	TSP () SO ² * Wind spd/dir
Period of Monitoring	month day year wonth day year
Other data recorded	
	al summaries to this application.
*Specify bubbler (8) or continuo	us (C).
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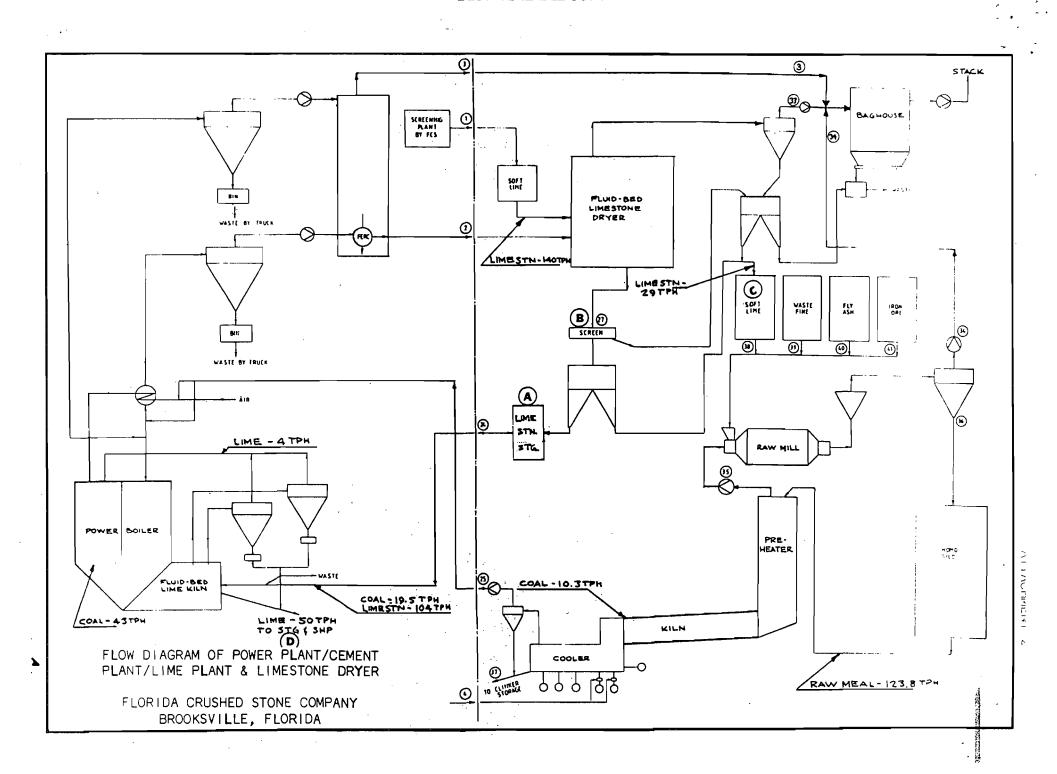
Ŕ

	Z. Instrume	ntation, Field and Laboratory					
	a. Was inst	rumentation EPA referenced or its equivalent? [] Yes [] No					
	b. Was inst	rumentation calibrated in accordance with Department procedures?					
	() Yes	[] No [] Unknown					
8.	Meteorologica	Meteorological Data Used for Air Quality Modeling					
	1 Ye	ur(s) of data from / / to / / 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 Hodels Used						
	1.	Modified? If yes, attach description.					
	2.	Modified? If yes, attach description.					
	3.	Modified? If yes, attach description.					
	4.	Hodified? If yes, attach description.					
	Attach copies ciple output	of all final model runs showing input data, receptor locations, and printables.					
٥.	Applicants Maximum Allowable Emission Data						
	Pollutant	Eminsion Rate					
	TSP	grams/sec					
	S0 ²	grams/sec					
٤.	Emission Data Used in Hodeling						
		f emission sources. Emission data required is source name, description of (on NEOS point number), UTM coordinates, stack data, allowable emissions, erating time.					
F.	Attach all ot	her information supportive to the PSD review.					

- 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.
- 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

10
20
6.5
6
10
60
1
Polyester
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

VICTORIA J. TSCHINKEL SECRETARY

ALEX SENKEVICH DISTRICT MANAGER

BOB GRAHAM GOVERNOR

BAQM

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Lime Shipping	[X] New ¹ [] Existing ¹
APPLICATION TYPE: [X] Construction [] Open	eration [] Modification
COMPANY NAME: Florida Crushed Stone Compan	
Identify the specific emission point source	(s) addressed in this application (i.e. Lime Discharge &
Kiln No. 4 with Venturi Scrubber; Peaking Ur	nit No. 2, Gas Fired) Lime Silo Baghouse
SOURCE LOCATION: Street Cobb Rd.: 2 mi NW	of Brooksville City_Brooksville
	North 3162.110 km
Latitude . • _ •	"N Longi tude ""W"
APPLICANT NAME AND TITLE: Browne Gregg, Cha	irman and CEO
APPLICANT ADDRESS: Post Office Box 317, Lee	sburg, Florida 32748
· · · · · · · · · · · · · · · · · · ·	BY APPLICANT AND ENGINEER
A. APPLICANT	
I am the undersigned owner or suthorized	i representative* of Florida Crushed Stone Co.
I agree to maintain and operate the	o the best of my knowledge and belief. Further bollution control source and pollution control
also understand that a permit, if grant	oly with the provision of Chapter 403, Florid ions of the department and revisions thereof. Led by the department, will be non-transferable nt upon sale or legal transfer of the permittens.
*Attach letter of authorization	Signed: J. Drawn Bucs
· · · · · · · · · · · · · · · · · · ·	Browne Gregg, Chairman and CEO Name and Title (Please Type)
. 1	Date: 8/4/44 Telephone No. (904)787-0608
B. PROFESSIONAL ENGINEER REGISTERED IN FLOR	RIDA (where required by Chapter 471, F.S.)
This is to certify that the engineering been designed/examined by me and found	features of this pollution control project hav

permit application. There is reasonable assurance, in my professional judgment, that See Florida Administrative Code Rule 17-2.100(57) and (104)

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principles applicable to the treatment and disposal of pollutants characterized in th

en all	rces.	Signed Star	-97	
1819.40	John State Control of the Control of	John B. Koogler, Ph	.p., P.E.	t a wild a great
STATI STATI	7	Chaltan & Kanalan	ame (Please Type)	ier w
70. 1292 7AYE OF 100 7 16			ny Name (Please 1	ype)
7	Continue Con	1213 NW 6th Street,		· · · · · ·
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	ion No. 12925		Address (Pleas	
rida kegistrat	and the state of t	San	i i wiki kati ili	outerité l'échanis et desk
	SECTION	III GENERAL PROJECT INF	DRHATION	
Baghouse to	control emission	s from the bulk loading	of lime under l	ime silos. Ma
loadout rate	will be 200 tp	. Particulate emission	s will be contro	lled by a bagh
Land of the second of the second	will be 200 tp 1 air to cloth	and the second s	s will bé contrô	olled by a bagh
Like the given the control of the second	Contract Con	and the second s	s will bé contrô	ilied bý a bágh
with a 6.5-	1 a) r to cloth	and the second s		
with a 6.5-	lair to cloth	atio.	truction Permit	(pplication On)
Schedule of p Start of Cons Costs of poll for individus	roject covered i truction Novem	atio.	truction Permit of Construction reakdown of setim	Application Onlocation Onlocation 1986
Schedule of p Start of Cons Costs of poll for individua Information o	roject covered i truction Novem ution control sy 1 components/uni n actual costs s	atio. a this application (Conserving 1984) Completion Stem(s): (Note: Show be sof the project serving sell be furnished with the conserving sell be conserved as the conserved sell be conserved	truction Permit of Construction reakdown of setim	Application Onlocation Onlocation 1986
Schedule of p Start of Cons Costs of poll for individua Information o	roject covered i truction Novem ution control sy 1 components/uni n actual costs s	atio. n this application (Conserving 1984 Completion Stem(s): (Note: Show be of the project serving the p	truction Permit of Construction reakdown of setim	Application Onlocation Onlocation 1986
Schedule of p Start of Cons Costs of poll for individua Information o	roject covered i truction Novem ution control sy 1 components/uni n actual costs s	atio. a this application (Conserving 1984) Completion Stem(s): (Note: Show be sof the project serving sell be furnished with the conserving sell be conserved as the conserved sell be conserved	truction Permit of Construction reakdown of setim	Application Onlocation Onlocation 1986
Schedule of p Start of Cons Costs of poll for individua Information o	roject covered i truction Novem ution control sy 1 components/uni n actual costs s	atio. a this application (Conserving 1984) Completion Stem(s): (Note: Show be sof the project serving sell be furnished with the conserving sell be conserved as the conserved sell be conserved	truction Permit of Construction reakdown of setim	Application Onlocation Onlocation 1986
Schedule of p Start of Cons Costs of poll for individua Information o permit.)	roject covered in truction Novembution control syllicomponents/union actual costs sollinstalled of	atio. a this application (Conserving 1984) Completion Stem(s): (Note: Show be sof the project serving sell be furnished with the conserving sell be conserved as the conserved sell be conserved	truction Permit of Construction reakdown of estimates pollution continue application for	Application Onlocation Onlocation 1986 ated/costs onlocation or operation

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7620 hours per year	
·	
. If this is a new source or major modification, enswer the following ques (Yes or No) No - Minor modifications to major emitting facility.	tions.
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.	The said hours
2. Does best evailable control technology (BACT) apply to this source?	, NO
If you, eee Section VI.	
3. Does the State "Prevention of Significant Deterioristion" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	NO
4. Do "Standarde of Performance for New Stationary Sources" (NSPS)	NO
epply to this source?	
5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	NO
. Do "Reasonably Available Control Technology" (RACI) requirements apply	
to this source?	NO A
a. If yea, for what pollutents?	
b. If yes, in addition to the information required in this form,	

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

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

	Contam	inants	Utilization			
Description	Type	% Wt	Rate - lbe/hr	Relate to Flow Diagram		
Lime	Part.Matter	3–4	400,000	D		
	·					
·						

		and the second of the second			
		0-4- 44	!	/C C61	u 11 11
D. F	TOCESS	RACO. 17	applicable:	(See Section	Y . 15.89 11

:1	. Total Process	Input Rate (166/hr):	· .	400,00	00 max.	transfer	rate 🐇	新性。 斯
: : :	2. 多种概念分类的 19 miles 19 miles				:	\$ 4 a a b		24 / Marie 1
2	. Product Weigh	t (lbs/hr):		400,00	00	· 对于 1168		

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

1.23	an graduation in the way the property	And Mathematica, with a transfer			ાં વસ્ત્રી કરેલું કરાય છે. કરવામાં માર્ગિયા	State of the state of the second of the seco
	Neme Of	Emission ¹	Allowed ² Emission Rate per	Alloweble ³ Emlesion	Emission	Relate to Flow
	Conteminent	Maximum Actuel	Rule 17-2	lbs/hr	lbs/yr T/yr	Diegram
	Part.Matter	0.6*1 3.4 3.53	17-2.610FAC	0.6	857 3380	Stack
	* Based on 0.	015 gr/acf.				
-	Potential Emi	ssions - 5000 acin	rx 60 min/hr	× (20 gr/acf	/ 70 00) - 857 lbs/hr	
		The second of th			× 7884/2000	
					= 3380 †py	

¹See Section V, Item 2.

Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU hest 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.)	Conteminent	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Baghouse with 6.5-1	Part. Matter	99.93%	0.5 um	Estimate
air to cloth ratio.				
Efficiency based on i	nlet and outlet	particulate co	ncentration	
= (20 - 0.015) x 100/	20 = 99.93%			
	-			

E. Fuels

	Consum	ption*	
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)
None			

Percent Sulfurs Percent Ash:		
Densitys lbs/gel Typical Percent Ni Heat Capacitys 8TU/lb	trogens	
Other Fuel Contaminants (which may cause air pollution):		
F. If applicable, indicate the percent of fuel used for space he Annual Average Not Applicable Maximum		45 B. Ta
G. Indicate liquid or solid wastes generated and method of dispo		
	•:-	

rack Held	ht:	50		ft.	Stack Di	amete	r:	1.5		ft.
as Flow R	ete: 5000	ACFM		_DSCFH	Gas Exit	Temp	erature	:	160	eF
ater Vapo	r Content:	2-3		x	Valocity	·:	•	47.2		FP
•			_							
		SECT		INCINER PPLICAE	ATOR INFO	RMATI	DN			
Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type (Garba	gé) (Path	IV olog-	Type (Liq.&	Gas	Type (Solid B	
Actual 1b/hr nciner- ated								- 1, 10 - 1, 10 - 1, 10		
Uncon- trolled lbs/hr)										e de la companya de l La companya de la co
tel Weigi	n of Waste	ted (15s/h	r)						· .	
tal Weigl proximat nufactur	nt Incinera e Number of	ted (lbs/h Hours of	r) Operation	per de		day/	w k : <u>124-148</u>		wks/yr.	Aller and the second of the se
proximat nufacture te Const	nt Incinera a Number of or	ted (16s/h	c) Operation	per de	el No.	day/	MR SACTOR		wks/yr:	
tel Weigl proximat nufactur	nt Incinera e Number of er	ted (lbs/h Hours of	r) Operation	per de	ol No.	fuel	BTU/hr		Vergera	ture
tel Weigl proximat nufacture te Const	nt Incinera	ted (lbs/h Houre of	r) Operation	per de	y	fuel	BTU/hr		wkė/yr.	ture
rimary C	nt Incinera	ted (15s/h Moure of Volume (ft)	r) Operation	per de	ol No.	Fuel	BTU/hr		Vergera	turo)
rimary Cl	nt Incinera e Number of or	ted (15s/h Maure of Volume (ft) ³	r) Operation Heat R (BTU	Mod	Y No.	Fuel	BTU/hr		Vering	turo)
rimary C!	nt Incinera e Number of er	Volume (ft)	r) Operation Heat R (BTU	Modelease	Y No.	Fuel	BTU/hr	ck T	Tempere (°F	turo)
proximation of the Constitute Con	nt Incinera e Number of ructed chamber chamber ate:	Volume (ft)	Heat R (BTU) Stack Disc ACFH	Modelease	Type DS bmit the	Fuel CFH+	BTU/hr Stac	ck T	Tempere (°F	turo)
rimary Clack Height Flow Road Cubic	nt Incinera e Number of er	Volume (ft) ft. er day dee	Heat R (BTU) Stack Diam ACFM ign capac ed to 50%	Hod elease /hr)	Type OS DS bmit the	Fuel CFH+	BTU/hr Stac Velocity	ck To	Tempera (°F	ture) Per stan

Brief	description of operating characteristics of control devices:
	· · · · · · · · · · · · · · · · · · ·
	· ·
Ultima ach, a	te disposal of any effluent other than that emitted from the stack (scrubber water, tc.):
	·
(OTE 8	Items 2, 3, 4, 6, 7, 8, and 10 in Section Y must be included where applicable.
	SECTION V: SUPPLEHENTAL REQUIREMENTS
Ploq e e	provide the following supplements where required for this application.

- Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
 (As shown in Section !!! A and B)
- 2. To a construction application, attach basis of emission estimate (s.g., design calculatione, design drawinge, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Fert 60 Hethods 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 ITIC and Attachment 1)
- 4. With construction permit application, include design detailenfor: all air pollution control systems (e.g., for beginnes 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 a potential (1-efficiency).
- (See Section IIID and Attachment 1)

 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrete, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or cirborne 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 air-borne emissions, in relation to the surrounding eres, residences and other personent 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 plon of facility chowing the location of menufecturing processes and autiets for airborne emissions. Relate all flows to the flow diagram.

(Included in original Florida Crushed Stone Attachment package)

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Effective November 30, 1982

Page 7 of 12

9.	The appropriate	application fee in	accordance with	Rule 17-4.05.	The check should be
	made payable to	the Department of E	nvironmental Reg	ulation.	

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.

Ą.	Not Ap Are standards of performance for new sta applicable to the source?	plicable tionary sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Conteminant	Rate or Concentration
		-
<u>-</u>		
_		and the second s
3.	Has EPA declared the best svailable contyes, attach copy)	trol technology for this class of sources (If
	[] Yes [] No	
	Conteminant	Rate or Concentration
	The state of the s	- Page Andrews (* * * * * * * * * * * * * * * * * * *
	おけら (本) (1) おけって a d dee (1) a d (大) (1) (1) (1) (1) (2) (2) (2) (2)	
		Company of the second of the s
:.	Whatmemission levels do you propose as be	• • • • • • • • • • • • • • • • • • • •
	Conteminant	Rate or Concentration

- D. Describe the existing control and treatment technology (if any).
 - 120 Control Device/System:

1000

2. Operating Principles:

J. Efficiency: *

4. Capital Costs:

S 5 1 .

say in participation

.

*Explain method of determining

Useful Life: 6. Operating Costs: 7. Energy: 8. Maintenance Cost: 9. Emissions: Contaminant Rate or Concentration 10. Stack Parameters Height: ft. b. Diameters ft. ·F. ACFH d. Flow Rates. Temperetures FPS Velocity: Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). 1. b. Operating Principles: a. Control Device: c. Efficiency:1 d. Capital Costs f. Operating Costs Useful Life: g. Energy: 2 h. Maintenance Costs i. Availability of construction materials and process chemicals: j. Applicability to manufacturing processes: Ability to construct with control device, inetall in available space, and operate within proposed levels: 2. Control Device: b. Operating Principles: Efficiency: 1 d. Capital Cost: Useful Life: f. Operating Cost: g. Energy: 2 h. Maintanance Coat: i. Availability of construction materials and process chemicals: Explain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH design rate.

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Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: Operating Principles: Efficiency: 1 Capital Cost: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: i. Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 4. Control Device: Operating Principles: Efficiency: 1 d. Capital Costs: Useful Life: f. Operating Costs g. Energy: 2 h. Naintenance Coats 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: 2. Efficiency:1 1. Control Device: 3. Capital Cost: Useful Life: Énergy: 2 Operating Cost: 6. Maintenance Cost: B. Manufacturer: Other locations where employed on similar processes: (1) Company:

(2) Mailing Address:

(3) City:

 1 Explain method of determining efficiency. 2 Energy to be reported in units of electrical power – KWH design rate.

DER Form 17-1.202(1) Effective November 30, 1982 (4) State:

(5) Environmental Manager:	
(6) Telephane No.:	
(7) Emissions: 1	
Contaminant	Rate or Concentration
(8) Process Rate: 1	
b. (1) Company:	
(2) Mailing Address:	
(3) City:	(4) States
(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Conteminant	Rate or Concentration
(8) Process Rate: 1	
10. Reason for selection an	nd description of systems:
Applicant must provide this in available, applicant must state	
SECTION VII -	PREVENTION OF SIGNIFICANT DETERIORATION Not Applicable
	TSP () SO ² * Wind spd/dir
Period of Monitoring	
	month day year month day year
Other data recorded	
Attach all data or statistic	cel summeries to this application.
*Specify bubbler (8) or continuo	ous (C).
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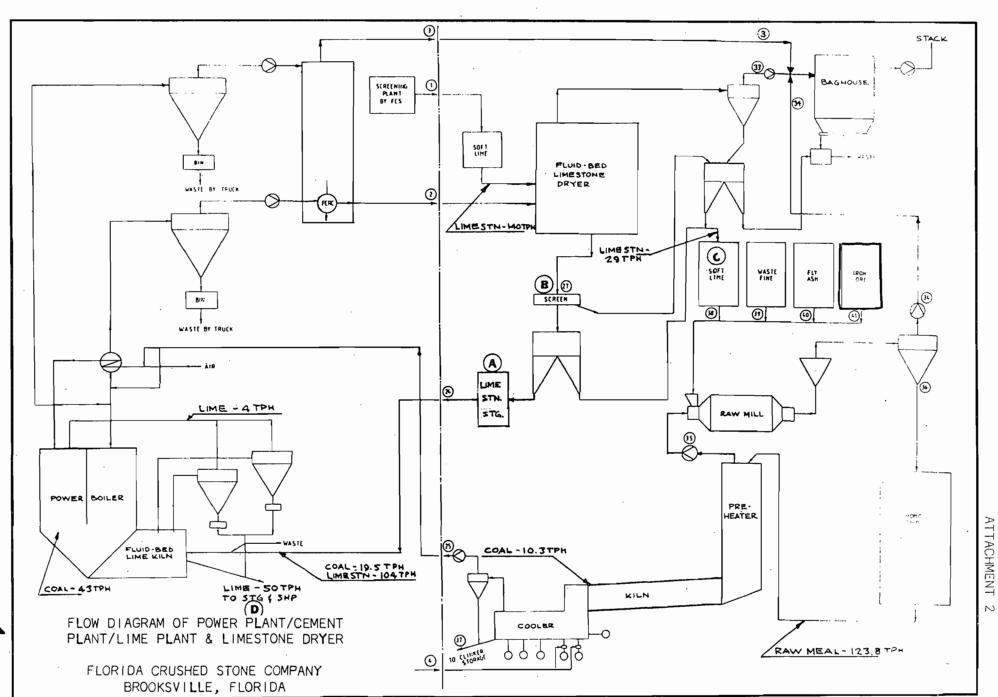
	Instrumenta	tion, field and Laboratory
	a. Was instrum	entation EPA referenced or its equivalent? [] Yes { } No
	b. Was instrum	entation calibrated in accordance with Department procedures?
	[] Yes [] No [] Unknown
	Meteorological	Data Used for Air Quality Modeling
	1 Year(s) of data from // / to // / month day year month day year
	2. Surface dat	a obtained from (location)
	3. Upper air (mixing height) data obtained from (location)
	4. Stability w.	ind rose (STAR) data obtained from (location)
	Computer Models	Used
	1	Modified? If yes, attach description.
		Modified? If yes, attach description.
	3.	Modified? If yes, attach description.
	4.	Modified? If yes, attach description.
	ciple output tel	•
•		num Allowable Emission Data
	Pollutant	Emiasion Rate
	TSP	grams/sec
	so ²	grams/sec
•	Emission Data Us	led in Hadeling
		emission sources. Emission data required is source name, description of n NEDS point number), UTM coordinates, stack data, allowable emissions, ating time.
•	Attach all other	r information supportive to the PSD review.
•	ble technologie	ial and economic impact of the selected technology versus other applica- s (i.e., jobs, payroll, production, taxes, energy, etc.). Include ne environmental impact of the sources.
•		ic, engineering, and technical material, reporta, publications, jour-competent relevant information describing the theory and application of

DER Form 17-1.202(1) Effective November 30, 1982

the requested best available control technology.

FABRIC FILTER DATA

Source _ Lime Silo Discharg	e
Type of Particulate Lime	
Gas Flow (Acfm)5000	
Collector Pressure Drop (In. H ₂ 0)	
Fan Requirement (Hp)	20
Air/Cloth Ratio (Acfm/ft ²)	
Bag Diameter (in.)	6
Bag Length (ft.)	
Number of Bags	
Number of Compartments	
Filter Material	
Cleaning Method	Pulse Jet



SHOLTES X KOOGLER

Best Available Copy

11027-09/433

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32803



DER

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

> ALEX SENKEVICH DISTRICT MANAGER

BAOM

	APPLICATION 10	OPERATE/CONSTRUCT	AIR POLLUTION	SOURCES	_
SOURCE TYPE: Lime	Storage Silo	[×]	New ¹ [] Exis	stingl	•
APPLICATION TYPE:	[X] Construct	ion [] Operation	[] Modificat	ion	
COMPANY NAME: FIG	orida Crushed S	tone Company		COUNTY: Her	nando
Identify the spec	ific emission po	oint source(s) add	ressed in this	application	(i.e. Lime
Kila No. 4 with V	enturi Scrubber;	Peaking Unit No.	2, Gas Fired)	Lime Storage	Silo A
SOURCE LOCATION:	Street Cobb Rd	.; 2 mi NW of Bro	oksville .	City Brook	sville
	UTM: East	360.135 km	North_	3162.110 kr	<u> </u>
		•,, "м			
APPLICANT NAME AND					
APPLICANT ADDRESS	: Post Office B	ox 317, Leesburg,	Florida 3274	8	· .
	SECTION I:	STATEMENTS BY APP	LICANT AND ENG	inrer	
A. APPLICANT I am the under	rsigned owner or	r authorized repre	sentative* of_	lorida Crush	ed Stone Co.
permit are tre I agree to m facilities in Statutes, and	ue, correct and aintain and ope such a manner all the rules and that a permiomptly notify the	Browne	est of my knowledge on control south the provision the department is all or legal of Gregg, Chairmane and Title	ledge and bell arce and politice and revision, will be no transfer of transfer	ief. Further lution control to 403, Floric ns thereof. Intransferable the permitter
		Date: <u>&</u>	///84/ Telep	phone No. (90	4)787-0608
B. PROFESSIONAL E	ENGINEER REGISTE	RED IN FLORIDA (w	here required h	by Chapter 47	1, 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, the

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

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	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 maintanance and operation of the pollution control facilities and, if applicable, pollution sources.
	Signed Comp
	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
	Hailing Address (Please Type)
Flo	rida Registration No. 12925 Date: <u>8/8/84</u> Felephone No. (904) 377-5822
	SECTION II: GENERAL PROJECT INFORMATION
۸.	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 th
	silo will be 50 tph. Particulate emissions will be controlled by a baghouse with a
	6.5-1 air to cloth ratio.
в.	Schedule of project covered in this application (Construction Permit Application Only)
	Start of Construction November 1984 Completion of Construction October 1986
c.	Coets of pollution control system(s): (Note: Show breakdown of satisfied 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
0.	Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates. None
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Requested permitted equipment operating time: $hrs/day 24$; $days/wk 7$; $wks/yr 52$;						
11	power plant, hrs/yr; if essenal, describe: This source will o	perate				
_	7884 hours per year.					
	this is a new source or major modification, enswer the following quest es or No) No - Minor modifications to major emitting facility.	ions.				
1.	•	NO				
	a. If yes, has "offset" been applied?					
	b. If yea, 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 Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	NO				
4.	Do "Standards of Parformance for New Stationary Sources" (NSPS) apply to this source?	NO .				
5.	Do "Netional Emission Standards for Hazardous Air Pollutanta" (NESHAP) apply to this source?	NO				
	"Reasonably Available Control Technology" (RACT) requirements apply this source?	NO				
į.	a. If yee, for what pollutante?					
	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 enswer of "Yes". Attach any justification for any enswer 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:

.,	Contemi	inants	Utilization			
Description	Type	% Wt	Rate - lbe/hr	Relate to Flow Diagram		
Lime	Part. Matter	3-4	100,000	D		
	•	,				
••••						

ß.	Process	Rata.	19	applicable:	(544	Section	٧.	Itam 13	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	Emission ¹	Allowed ² Emission Rate per	Allowable ³ Enimation	Potential ⁴ Emission	Relate to Flow
Conteminent	Haximum Actual" lbs/hr T/yr	Rule 17-2	lbw/hr	lbs/yr T/yr	Diagram
Part.Matter	0.6* 2.4	17-2.610FAC	0.6	64 3780	Stack
*Based on 0.	015 gr/acf	•			
Potential Em	issions = 5000 act	m × 60 min/h	× (20 gr/acf	/7000) = 853 lbs/h	r
	*			× 7884/2000	
				= 3780 tpy	

¹ See Section V. Item 2.

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

Calculated from operating rate and applicable atendard.

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

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

Name and Type (Model & Serial No.)	Conteminant	Efficiency	Range of Particles Size Collected (in microna) (If applicable)	Basis for Efficiency (Section V Item 5)
Baghouse with 6.5-1	Part. Matter	99.93%	> 0.5 um	Estimate
air to cloth ratio				
Efficiency based on	nlet and outlet	particulate co	ncentration	
= (20 - 0.015) x 100/	20 = 99.93%		_	

E. Fuele

	Consump	tion*	
Type (Be Specific)	evq/hr	mex./hr	Heximum Heat Input (HHBTU/hr)
None			

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

Fuel	Yua	Lysi	let

be/gel	Typical Percent Nitrogens	
8TU/16		BTU/ge1
s air p	ollution):	· · · · · · · · · · · · · · · · · · ·
to the	silo as product.	:
	1	
	of fue: Man erated	of fuel used for space heating. Haximum erated and method of disposal. to the silo as product.

c- uerdi	ht:	200		ft. S	tack Diamete	r: 1.5		ft
as Flow Re	ete: _5000	ACFH	4022	_DSCFH G	dë Exit Temp	erature:	180	e F
eter Vepo	r Content:	2-3		x v	olocity:	47.2)	FP
,				~ '				· ·
		SECT		INCINERAT	ÖR INFORMATI	ON		
Type of Weste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type II (Garbage	I Type IV) (Patholog- ical)	Type V (Liq.& Ges By-prod.)		
Actual 1b/hr Inciner- ated			÷					
Uncon- trolled (lbe/hr)	engin'							
steľ Weigh	t Incinere	ted (lbs/h	r)		_ Deelgn Cap	ecity (156/	'hr)	
oteľ Weigh proximete mufecture	t Incinera Number of	ted (lbs/h	r)	per day	Deelgn Cap	ecity (158/	hr)_ wke/yr:ze	
oteľ Veigh pproximate mufecture	t Incinera Number of	ted (lbs/h	r)	per day ;	Deelgn Cap	ecity (158/	hr)_ wke/yr.en	en e
otel Weigh oproximate inufacture ite Conetr	t Incinere Number of	ted (lbs/h	r)	per day	Deelgn Cap	ecity (166/ wk	hr) wke/yr-z-	Arrens
otel Weigh oproximate nufacture ite Conetr	t Incinera	ted (lbs/h	r)	per day : Madel	Deeign Cap day/ No. Fuel	ecity (166/ wk	Temperal	en a les s
otel Weigh oproximate inufacture ite Conetr	t Incinera	House of (Yolune (ft)	r) Operation	per day : Madel	No. Fuel	ecity (166/ wk	Temperal	en a les s
proximate inufacture to Constr	Number of	Houre of (Yolune (ft)	r) Operation Heat R (BTU	per day :	Design Cap day/ No Fuel	ecity (156/ wk	Temperal	ture)
proximate nufacture to Constr	Number of	Volume (ft)	Heat R (BTU	per day :	Design Cap day/ No Fuel Type	BTU/hr Stack T	Temperal	ture)
proximate inufacture to Construct Construction Constructi	Mumber of vected	Yolume (ft)	Heat R (BTU	Per day : Nodel closse /hr)	Design Cap day/ No Fuel Type DSCFH*	BTU/hr Stack T	Temperal	ture F
rimary Ch secondary ack Heigh se Flow Ra	Mumber of ucted chamber t: te: ore tone p	Yolume (ft) ft.	Heat R (BTU	Nodel closse /hr) ator:	Design Cap day/ No Fuel Type DSCFH*	BTU/hr Stack T Velocitys ions rate i	Temperal (*F)	ture F

.

200

.....

Iltimate di mah, etc.):	sposel o	r any e	ffluent	other	than th	hat emit	ted from	a the ete	teck (ecrubi	pet weter
----------------------------	----------	---------	---------	-------	---------	----------	----------	-----------	--------------	-----------

SECTION V: SUPPLEHENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

- 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 atendards. To an operation application, attach test results of 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 of or all six pollution control systems (e.g., for beginns include cloth to air ratio; for acrubber 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 sale-sions a potential (1-efficiency).
- (See Section IIID and Attachment 1)

 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrete, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborns particles are evolved and where finished products are obtained.

 (Attachment 2)
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of air-borne emissions, in relation to the surrounding srea, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- (Included in original Florida Crushed Stone Attachment package)

 1. An 8 1/2" x 11" plot plan of facility chowing the location of manufacturing processes
 and outlete for airborne emissione. Relate all flows to the flow diagram.

9.	The appropriate application fee in accormade payable to the Department of Environ	dance with Rule 17-4.05. The check should be smental Regulation.
10.	With an application for operation permit struction indicating that the source w permit.	t, attach a Certificate of Completion of Con- as constructed as shown in the construction
	SECTION VI. REST AVAIL	ABLE CONTROL TECHNOLOGY
۸٠	Not Ap	plicable tionary sources pursuant to 40 C.F.R. Part 60
	[] Yee [] No	
	Conteminent	Rate or Concentration
_		
<u>•</u>		
8.	Hes EPA declared the best evallable con yes, attach copy)	trol technology for this class of sources (I
	[] Yes [] No	
	Conteminent	Rete or Concentration
	The state of the s	# 機能 (** * * * * * * * * * * * * * * * * *
,	The Control of the Co	
c.	What emission levels do you propose as be	
	Conteminent	Rate or Concentration
<u> </u>		
0.	Describe the existing control and treatment	ent technology (if any).
,	1: Control Device/System:	2. Operating Principles:
	3. Efficiency:	4. Capital Costa:

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*Explain method of determining

3. Efficiency: *

Useful Life: 6. Operating Coster 7. Energy: 8. Maintenance Cost: 9. Emissions: Conteminent Rate or Concentration 10. Stack Parameters ft. b. Diameters ft. Heights ACFH d. ·F. Flow Rates Temperatures Velocity: FPS Describe the control and treatment technology available (As many types es applicable, use additional pages if necessary). 1. Control Device: Operating Principles: Efficiency:1 Capital Coats Useful Life: Operating Costs Energy: 2 h. Meintenence Coets · **g** • Availability of construction meterials and process chemicals: Applicability to manufacturing processes: Ability to conetruct with control device, instell in available epace, and operate within proposed levels: 2. Control Device: b. Operating Principles: Efficiency: 1 d. Capital Cost: Useful Life: f. Operating Coats Energy: 2 h. Maintenance Cost: i. Availability of construction materials and process chamicals: ¹Explain method of determining efficiency. ²Energy to be reported in unite 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:
 5.
 a. Control Device:
 b. Operating Principles:
 c. Efficiency:1
- c. Efficiency: 1 d. Capital Coat:
- e. Useful Life: f. Operating Cost:
- g. Energy: Z h. Maintenance Cost:
- 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 Coeta:
 - e. Useful Life: f. Operating Cost:
 - g. Energy: ² h. Kaintenance Coat:
 - 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. Éfficiencyi¹
 - 3. Capital Coat: 4. Useful Life:
 - 5. Opërating Coat: 6. Énergy:²
 - 7. Heintenance Cost: 8. Henufacturer:
 - 9. Other locations where employed on similar processes:
 - a. (1) Company:
 - (2) Hailing Address:
- (3) City: (4) State:

 1 Explain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH design rate.

(5, Environmental Manager:	
(6) Telephone No.:	•
(7) Emissions: 1	
Contaminant	Rate or Concentration
(8) Process Rate: 1	
b. (1) Company:	
(2) Hailing Address:	
(3) City:	(4) State:
(5) Environmental Hanager:	(4) 30200
(6) Telephone No.:	
(7) Emissions: 1	
Conteminant	Rate or Concentration
	<u> </u>
1	
(8) Process Rate: 1	
10. Reason for melaction and	description of systems:
Applicant must provide this infor available, applicant must state to	
	REVENTION OF SIGNIFICANT DETERIORATION
. Company Monitored Data	Not Applicable
1no. sites	TSP () SO ² * Wind apd/dir
	month day year month day year
Other date recorded	
Attach all data or statistical	summaries to this application.
Specify bubbler (B) or continuous	(c).
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	2.	Instrumentation, Field a	nd Laboratory
	A .	₩es inetromentation (PA	referenced or its equivalent
	Ь.	Was instrumentation call	brated in accordance with Department procedures?
		[] Yes [] No [] Unk	томп .
8.	Het	teorological Data Used for	Air Quality Modeling
	1.	Year(s) of data fr	month day year month day year
	. 2 .	Surface data obtained fr	om (location)
	3.	Upper air (mixing height) data obtained from (location)
	4.	Stability wind rose (STA	R) data obtained from (location)
c.	Com	puter Hodels Used	
	1.		Hodified? If yes, ettsch description.
	2.		Modified? If yes, attach description.
	3.		Hodified? If yes, attach description.
	4.		Hodified? If yes, attach description.
		ach copies of all final male output tables.	odel runa ahowing input data, receptor locations, and prin-
D.	Арр	licants Maximum Allowable	Emission Data
	Pol	lutent	Emission Rets
		TSP	grams/sec
	:	so ²	gress/sec
ε.	Emi	ssion Data Used in Modelia	ig ·
	poi		ces. Emission data requirad is source name, description of number), UTH coordinates, stack data, allowable emissions,

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3

- F. Attach all other information supportive to the PSD review.
- Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, texes, energy, etc.). sssessment of the environmental impact of the sources.
- . H. Attach acientific, engineering, and technical material, reports, publications, jour-nals, 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 ParticulateLime		
Gas Flow (Acfm) 5000		
Temperature (°F)180		
Part. Conc. (gr/Acf) 20		
Collector Pressure Drop (In. H ₂ 0)	10	
Fan Requirement (Hp)	20	
Air/Cloth Ratio (Acfm/ft ²)	6.5	
Bag Diameter (in.)		
Bag Length (ft.)	10	
Number of Bags	60	
Number of Compartments	1	
Filter Material	Polyester	
Cleaning Method	Pulse Je†	

