

Fl. Stone Company

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
NOTICE OF PERMIT

In the matter of an  
Application for Permit by:

DER File No. AC 27-222095  
PSD-FL-091C  
Hernando County

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

Enclosed is Permit Number AC 27-222095 for the modification of the cement kiln to allow continuous utilization of whole tires as a supplemental fuel at the Florida Crushed Stone facility in Brooksville, Hernando County, Florida. This permit is issued pursuant to Section(s) 403, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

C. H. Fancy

C. H. Fancy, P.E., Chief  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400  
904-488-1344

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 12-22-92 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,  
on this date, pursuant to  
§120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

Kevin Toben  
(Clerk)

12-22-92  
(Date)

Copies furnished to:

- B. Thomas, SW District
  - J. Koolger, Ph.D., P.E.
  - J. Harper, EPA
  - B. Mitchell, NPS
  - C. Hetrick, HCBCC
  - W. Congdon, Esq., DER
  - T. Mountain, FSCS
  - L. Sellers, Jr., Esq., H&K
  - T. Cleveland, Esq., OHF&C
  - Randy File
  - Doug Beason, Esq., DER
  - Tom McDevu, OSW
- } 12-22-92 FRM

P 062 921 939



**Receipt for Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Name <i>Randy Thompson</i>	
Street and No. <i>114 Crushed St</i>	
P.O. State and ZIP Code <i>Leesburg, FL</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date <i>AC 27-222095 PSD-FL-091C</i>	

PS Form 3800, June 1991

PS Form 3811, July 1983 447-945

**SENDER: Complete items 1, 2, 3 and 4.**

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

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

3. Article Addressed to:  
*Mr. Randy Thompson  
114 Crushed Stone  
P.O. Box 490300  
Leesburg, FL 34749-0300*

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	<i>P062921939</i>

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

5. Signature - Addressee  
*X*

6. Signature - Agent  
*X Bill Westcott*

7. Date of Delivery  
*12-24-92*

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

DOMESTIC RETURN RECEIPT

Final Determination

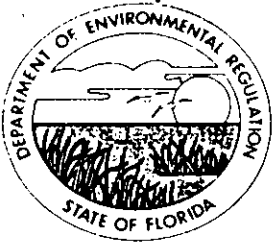
December 17, 1992

Florida Crushed Stone Company

AC 27-222095 and PSD-FL-091C

The construction permit application package has been reviewed by the Department. The Department's Intent to Issue was distributed on November 24, 1992, and available for public inspection at the Department's Southwest District and Bureau of Air Regulation offices and the Hernando County Board of County Commission office. Public Notice of the Department's Intent to Issue was published in The Tampa Tribune on November 28, 1992.

There were no comments received during the public notice period. Therefore, it is recommended that the construction permit and amendment to the federal permit be issued as drafted.



# Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

**PERMITTEE:**  
**Florida Crushed Stone Company**  
**Post Office Box 490300**  
**Leesburg, Florida**  
**34749-0300**

**Permit Number: AC 27-222095**  
**PSD-FL-091C**  
**Expiration Date: December 31, 1994**  
**County: Hernando**  
**Latitude/Longitude: 28°35'00"N**  
**82°25'53"W**  
**Project: Cement Kiln Modification**

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.); Florida Administrative Code (F.A.C.) Chapters 17-2, 17-210 thru 17-297, and 17-4; and, 40 CFR (July, 1991 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of the cement kiln to allow continuous utilization of whole tires as a supplemental fuel. The maximum utilization/firing rate is 15.0% of the total Btu heat input, or 1.33 tons per hour. The kiln's primary fuel is coal and is supplemented with shredded tires. The facility is located in Brooksville, Hernando County, Florida. The UTM coordinates are Zone 17, 360.102 km East and 3162.125 km North.

The Source Industrial Code: 3241 Cement Manufacturing

The Source Classification Code numbers are:

- o 3-05-006-06 Cement Mfg-Dry Process Tons Cement Produced
- o 3-90-002-01 Bitum. Coal-Cement Kiln Tons Burned
- o 3-90-012-99 Solid Waste-General Tons Burned

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

Attachments are listed below:

1. FCSC's kiln test results received September 18, 1992.
2. Mr. David A. Buff's Preliminary Report dated November 3, 1992, and received November 10, 1992.
3. Mr. Tom Mountain's letter received November 10, 1992, via FAX.
4. Dr. John B. Koogler's letter and processing fee received November 17, 1992.
5. Construction permit No. AC 27-118674 and its Attachments; also, PSD-FL-091.

**PERMITTEE:**  
**Florida Crushed Stone Company**

**Permit Number: AC 27-222095**  
**PSD-FL-091C**  
**Expiration Date: December 31, 1994**

**Attachments cont.:**

6. Amendment to construction permit No. AC 27-118674, signed November 20, 1992 (PSD-FL-091A).
7. 40 CFR (July, 1991 version).
8. Intent to Issue package dated November 24, 1992.
9. Final Determination dated December 17, 1992.

**GENERAL CONDITIONS:**

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

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

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

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

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

**PERMITTEE:**  
**Florida Crushed Stone Company**

**Permit Number: AC 27-222095**  
**PSD-FL-091C**  
**Expiration Date: December 31, 1994**

**GENERAL CONDITIONS:**

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

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

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

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

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

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

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

PERMITTEE:  
Florida Crushed Stone Company

Permit Number: AC 27-222095  
PSD-FL-091C  
Expiration Date: December 31, 1994

**GENERAL CONDITIONS:**

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

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

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

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

13. This permit constitutes compliance with:

- a. New Source Performance Standards (NSPS), 40 CFR 60.60, Subpart F, Portland Cement Plants;
- b. Prevention of Significant Deterioration; and,
- c. Best Available Control Technology (BACT).

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

PERMITTEE:  
Florida Crushed Stone Company

Permit Number: AC 27-222095  
PSD-FL-091C  
Expiration Date: December 31, 1994

**GENERAL CONDITIONS:**

c. Records of monitoring information shall include:

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

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

**SPECIFIC CONDITIONS:**

1. Construction permit No. AC 27-118674 (PSD-FL-091) and all associated documents and conditions are incorporated by reference.
2. Amendment to construction permit No. AC 27-118674 (PSD-FL-091A), signed November 20, 1992, and all associated documents and conditions are incorporated by reference.
3. Whole tire utilization shall not exceed 8300 hours per year. Monthly tabulation of the hours operated while utilizing whole tires shall be initiated and submitted in an annual operation report (AOR) to the Department's Southwest District by March 1 of each year. The files shall contain the last two years of operation data.
4. The cement kiln's maximum utilization/firing rate of whole tires shall not exceed 15.0 percent of the total Btu heat input, or 1.33 tons per hour.
5. The utilization/firing rate of whole tires shall be quantified (weighed) continuously and recorded; and, the records shall be kept on file for a minimum of two years.
6. The quantity of all deliveries of whole tires shall be documented and kept on record/file for a minimum of two years.



PERMITTEE:  
Florida Crushed Stone Company

Permit Number: AC 27-222095  
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**SPECIFIC CONDITIONS:**

7. Tire-derived fuel (TDF) may be introduced into the cement kiln only at a point at the base of the preheater (i.e., kiln inlet).
8. TDF firing in the cement kiln shall not commence or be conducted unless the cement kiln has reached an operating temperature of at least 1,400°F for one hour. The operating temperature shall be measured at the cement kiln inlet.
9. TDF firing in the cement kiln shall not commence or be conducted unless the oxygen level in the kiln, as measured at the cement plant induced draft fan, is at least 3 percent (1-hour average).
10. Permittee shall continuously monitor NO<sub>x</sub> concentrations in the stack gases in the CPL (cement, power, and lime) main plant stack, and convert the same to a mass emission rate (lb/hr on a 1-hour average) using an FDER approved conversion factor. Within 6 months following EPA promulgation of final regulations on continuous emission monitoring (40 CFR Part 75), a flow monitor and NO<sub>x</sub> emission monitor (EPA-approved or equivalent) shall be installed in the CPL main plant stack to continuously measure the stack gas flow rate and NO<sub>x</sub> concentration. The monitors shall be maintained and calibrated periodically to insure adequate data. The data shall be recorded on an hourly basis and used in the determination of NO<sub>x</sub> stack emissions.
11. Any change in the method of operation, etc., pursuant to Florida Administrative Code (F.A.C.) Rule 17-210.200 (Definitions-Modification), the permittee shall submit an application along with the appropriate processing fee to the Department's Bureau of Air Regulation.
12. Objectionable odors shall not be allowed off the facility's property in accordance with F.A.C. Rule 17-296.320.
13. The permittee shall comply with all of the applicable provisions and requirements of F.A.C. Chapters 17-2, 17-210 thru 17-297, and 17-4; and, 40 CFR (July, 1991 version).
14. For PSD tracking purposes only, the projected total hydrocarbon emissions are 22.8 tons per year.
15. The cement kiln and its associated equipment are subject to the applicable provisions of F.A.C. Rules 17-210.650: Circumvention; 17-210.700: Excess Emissions; and, 17-4.130: Plant Operations-Problems

PERMITTEE:  
Florida Crushed Stone Company

Permit Number: AC 27-222095  
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**SPECIFIC CONDITIONS:**

16. An AOR shall be submitted to the Department's Southwest District office by March 1 reporting the kiln's averaged process input rate and clinker production of each month of the previous year. The AOR shall also contain the total amount, separately and by weight, of shredded and whole tires utilized/fired during the previous year.

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

18. An application for an operation permit must be submitted to the Department's Southwest District office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed and noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-210.350).

Issued this 21<sup>st</sup> day  
of December, 1992

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Carol M. Browner, Secretary

Attachments

Available Upon Request



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

# Interoffice Memorandum

TO: Carol Browner  
FROM: Howard L. Rhodes *HR*  
DATE: December 15, 1992  
SUBJ: Approval of a Construction Permit  
AC 27-222095 and PSD-FL-091C  
Florida Crushed Stone Company: Cement Kiln

Attached for your approval and signature is a construction permit and federal permit amendment prepared by the Bureau of Air Regulation for the above referenced company to utilize whole tires on a continuous basis, but for a maximum of 8300 hrs/yr.

Florida Crushed Stone Company's cement kiln normally fires coal to provide heat to dry the raw materials feed into the kiln. This modification will allow the company to supplement coal with tires as a fuel; in addition, it will allow the removal of some of the various tire storage sites in Florida (DER Contracts are involved with this company on tire storage site removal). The facility is located outside of Brooksville, Hernando County, Florida.

I recommend your approval and signature.

HR/BM/rbm