

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

In the matter of an
Application for Permit by:

Mr. Don Kelly, Plant Manager
Southdown, Inc. dba
Florida Mining and Materials
Post Office Box 6
Brooksville, Florida 34605-0006

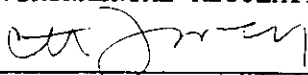
DER File No. AC 27-240349
Hernando County

Enclosed is Permit Number AC 27-240349 to allow continuous utilization of whole tires as a supplement to the current fuels in the No. 1 cement kiln at the Southdown, Inc./Florida Mining and Materials 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

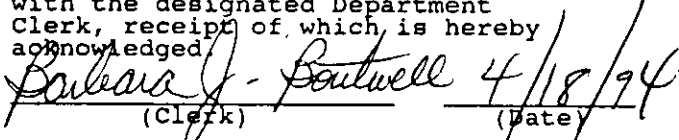

C. H. Fancy, P.E., Chief
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400
904-488-1344

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 4/18/94 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.


(Clerk) 4/18/94
(Date)

Copies furnished to:

B. Thomas, SW District
J. Harper, EPA
J. Bunyak, NPS
C. Hetrick, HCBCC
D. Beason, Esq., DEP
A. Lue, P.E., SI
J. Kooqler, Ph.D., P.E., K&A
D. Buff, P.E., KBN
A. Cleveland, Esq., OHF&C
L. Sellers, Jr., Esq., H&K
D. Dee, Esq., CFWES&C

is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
 Mr. Don Kelly
 Plant Manager
 Southdown, Inc. dba
 Florida Mining and Materials
 P. O. Box 6
 Brooksville, FL 34605-0006

4a. Article Number
 P 872 563 631

4b. Service Type
 Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

7. Date of Delivery
 4-20-94

5. Signature (Addressee)

6. Signature (Agent)
 Barbara [Signature]

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

PS Form 3811, December 1991 *U.S. GPO: 1992-323-402

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

P 872 563 631



Receipt for Certified Mail

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

PS Form 3800, JUNE 1991

Sent to Mr. Don Kelly, FM&M	
Street and No. P. O. Box 6	
P.O., State and ZIP Code Brooksville, FL 34605-0006	
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 Mailed: 4-18-94 Permit: AC 27-240349	

Final Determination

Southdown, Inc./dba Florida Mining & Materials

Hernando County

AC 27-240349

The construction permit request package has been reviewed by the Department. Public Notice of the Department's Intent to Issue was published in The Tampa Tribune on February 12, 1994. The proposed modification was distributed on January 20, 1994, and available for public inspection at the Department's Southwest District office and Bureau of Air Regulation office and the Hernando County Government Center Planning office.

There were no comments received during the public notice period. However, issues were commented on and received from Dr. John B. Koogler, P.E. and consultant for Florida Mining & Materials, and from Mr. C. Anthony Cleveland, Esq., attorney representing Hernando County. Since the consequences of the issues commented on are mutually agreeable to both parties and the Department, and the effect is inconsequential to the emissions review performed, then there is no requirement to reissue an Intent package or renote. Therefore, the following comments are addressed below as they were submitted and the Department's responses (Re:) follow (any changes agreed to that will be made to the permit will be in bold print):

A. Dr. John B. Koogler's letter received February 2, 1994, via FAX (hard copy received February 4, 1994):

1. The proposed total emission rate for carbon monoxide (CO) is incorrect, which occurred when adding the baseline emission rate and the proposed emission rate increase (31.6 lbs/hr + 22.4 lbs/hr = 51.0 lbs/hr; it should have been 54.0 lbs/hr).

Re: There is no problem with the adjustment from any baseline emission rate since the proposed increase (i.e., 22.4 x 8760 = 98.1 TPY) is independent of the baseline rate.

2. The letter requested an 8-hour averaging time for CO and that compliance be demonstrated initially and once every five years for permit renewal.

Re: The averaging time is satisfactory as long as the compliance test is conducted for three 8-hour periods or by a CO continuous emissions monitor (CEM) that is installed and operated in accordance with the regulations governing CEMs. Since the emission rate increase of 22.4 lbs/hr (98.1 TPY) makes a source a synthetic minor source, verification will be required annually.

Final Determination

FM&M: AC 27-240349

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3. Two editorial changes were requested, one to Specific Condition No. 10 and one to Specific Condition No. 13, which are:

Specific Condition No. 10: Begin the condition with "If there is any change in the method of operation"; and,

Specific Condition No. 13: Insert the following: "Pursuant to Rule 17-212.400(2)(g), F.A.C., if there is any net increase"

Re: The requests are acceptable and the following will be changed:

Specific Conditions: Nos. 10 and 13:

FROM:

10. 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.

13. Pursuant to Rule 17-212.400(2)(g), F.A.C., any net increase in potential emissions of +1.9 tons/yr of CO above the maximum allowable/potential emissions of 223.4 tons/yr while utilizing/firing WTDF with coal, the No. 1 cement kiln will be subject to NSR in accordance with Rule 17-212.400(5), F.A.C. For PSD tracking purposes, the net potential CO emissions are +98.1 tons/yr while utilizing/firing WTDF with coal.

TO:

10. **If there is** 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.

13. Pursuant to Rule 17-212.400(2)(g), F.A.C., **if there is** any net increase in potential emissions of +1.9 tons/yr of CO above the maximum allowable/potential emissions of 223.4 tons/yr while utilizing/ firing WTDF with coal, the No. 1 cement kiln will be subject to NSR in accordance with Rule 17-212.400(5), F.A.C. For PSD tracking purposes, the net potential CO emissions are +98.1 tons/yr while utilizing/firing WTDF with coal.

4. The Expiration Date is acceptable.

Re: Based on the circumstances, the Expiration Date will be changed:

FROM: June 30, 1994

TO: December 31, 1994

B. Dr. John B. Koogler's MEMORANDUM dated March 23, 1994, and received April 1, 1994, via FAX:

1. The requested baseline actual emissions rate is to be the average of the test results during the years 1992 and 1993, which are:

$$(38.2 \text{ lbs/hr} + 31.6 \text{ lbs/hr})/2 = 34.9 \text{ lbs/hr}$$

Re: This is acceptable and consistent with Rule 17-212.200(2), Florida Administrative Code (F.A.C.). This request and response does change the baseline actual emissions rate that was discussed in A.1. above (i.e., 31.6 lbs/hr to 34.9 lbs/hr).

2. The requested CO emissions rate increase is 22.8 lbs/hr (@ 8760 = 99.9 TPY; previous was 22.4 lbs/hr @ 8760 hrs = 98.1 TPY); and, the allowable emissions rate is:

$$34.9 \text{ lbs/hr} + 22.8 \text{ lbs/hr} = \underline{57.7} \text{ lbs/hr}$$

Re: The request is acceptable and does not require any additional emissions review or public noticing (i.e., change from 98.1 TPY to 99.9 TPY; significant emissions rate change is 100.0 TPY for CO). Based on the hours of operation during the years 1992 and 1993, which are 7558 hrs/yr and 7887 hrs/yr, respectively, the average actual annual baseline emissions rate and the total annual CO allowable emissions limitation are calculated:

$$1992: (38.2 \text{ lbs/hr} \times 7558 \text{ hrs}/1992)/2000 \text{ lbs/ton} = 144.4 \text{ tons}$$

$$1993: (31.6 \text{ lbs/hr} \times 7887 \text{ hrs}/1993)/2000 \text{ lbs/ton} = 124.6 \text{ tons}$$

$$(144.4 \text{ tons}/1992 + 124.6 \text{ tons}/1993)/2 = 134.5 \text{ tons avg. actual annual baseline emissions rate}$$

$$134.5 \text{ tons} + 99.9 \text{ tons} = \underline{234.4} \text{ tons, annual allowable limitation}$$

As was imposed before, any change in CO emissions by 0.1 TPY will impose PSD new source review in accordance with Rule 17-212.400(2)(g), F.A.C.

Therefore, the following will be changed:

Specific Conditions: Nos. 12 and 13:

FROM:

12. While utilizing/firing WTDF with coal, the maximum allowable/potential carbon monoxide (CO) emissions shall not exceed 51 lbs/hr, 223.4 tons/yr, which was requested by the permittee to avoid new source review (NSR) requirements pursuant to Rules 17-212.400(2)(d) and (g) and 17-212.400(5), F.A.C.

13. Pursuant to Rule 17-212.400(2)(g), F.A.C., if there is any net increase in potential emissions of +1.9 tons/yr of CO above the maximum allowable/potential emissions of 223.4 tons/yr while utilizing/ firing WTDF with coal, the No. 1 cement kiln will be subject to NSR in accordance with Rule 17-212.400(5), F.A.C. For PSD tracking purposes, the net potential CO emissions are +98.1 tons/yr while utilizing/firing WTDF with coal.

TO:

12. While utilizing/firing WTDF with coal, the maximum allowable/potential carbon monoxide (CO) emissions shall not exceed 57.7 lbs/hr, 234.4 tons/yr, which was requested by the permittee to avoid new source review (NSR) requirements pursuant to Rules 17-212.400(2)(d) and (g) and 17-212.400(5), F.A.C.

13. Pursuant to Rule 17-212.400(2)(g), F.A.C., if there is any net increase in potential emissions of +0.1 tons/yr of CO above the maximum allowable/potential emissions of 234.4 tons/yr while utilizing/ firing WTDF with coal, the No. 1 cement kiln will be subject to NSR in accordance with Rule 17-212.400(5), F.A.C. For PSD tracking purposes, the net potential CO emissions are +99.9 tons/yr while utilizing/firing WTDF with coal.

C. Mr. C. Anthony Cleveland's letter with enclosure received April 12, 1994.

1. Additional language, which has been agreed to by Hernando County and FM&M representatives, is proposed to be added to Specific Condition No. 10.

Re: The Department agrees to add the additional language and the change is:

Specific Condition No. 10:

FROM:

10. If there is 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.

TO:

10. If there is 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. Any physical modifications to the WTDF feed mechanism utilized during the test burn of WTDF/coal that results in an increased feed rate, a change in the location where WTDF is introduced into the kiln, or the introduction of WTDF into the kiln through the use of a mechanism other than a double air lock feed system, may require a modification to this permit. If the WTDF feed mechanism is to be physically modified in this manner, a description of such modifications shall be submitted to FDEP and HCBCC 90 days prior to actual modification. FDEP and HCBCC shall review this information and, prior to any modification, determine whether further stack testing is required in order to determine if such modifications will result in an increase in actual emissions, whether a permit modification is necessary, and/or what the terms of any modified permit shall be. FDEP will provide a clear point of entry for Hernando County and any other substantially-affected parties to challenge any of FDEP's proposed determinations in this regard. FM&M shall bear the burden to provide reasonable assurances that such modifications will not affect the conclusions derived from the test burn of May and June, 1993.

D. MEMORANDUM from John Koogler to Dave Buff, dated March 28, 1994 (enclosure to C. Anthony Cleveland's letter dated April 12, 1994).

1. The comment regards the final allowable hourly emissions rate of 57.7 lbs/hr.

Re: This issue was discussed previously in B.1 and 2. above.

2. The request is to accept the 57.7 lbs/hr as a 1-hour average standard, with compliance being demonstrated by three 1-hour test runs.

Re: This request is acceptable and the following will be changed:

Specific Condition No. 12:

FROM:

12. While utilizing/firing WTDF with coal, the maximum allowable/potential carbon monoxide (CO) emissions shall not exceed 57.7 lbs/hr, 234.4 tons/yr, which was requested by the permittee to avoid new source review (NSR) requirements pursuant to Rules 17-212.400(2)(d) and (g) and 17-212.400(5), F.A.C.

TO:

12. While utilizing/firing WTDF with coal, the maximum allowable/potential carbon monoxide (CO) emissions shall not exceed 57.7 lbs/hr (1-hour average), 234.4 tons/yr, which was requested by the permittee to avoid new source review (NSR) requirements pursuant to Rules 17-212.400(2)(d) and (g) and 17-212.400(5), F.A.C.

E. Attachments to be incorporated:

- o Dr. John B. Koogler's letter received February 2, 1994, via FAX (hard copy received February 4, 1994).
- o Dr. John B. Koogler's MEMORANDUM dated March 23, 1994, and received April 1, 1994, via FAX:
- o Mr. C. Anthony Cleveland's letter with Enclosure received April 12, 1994.
- o MEMORANDUM from John Koogler to Dave Buff, dated March 28, 1994 (Enclosure to C. Anthony Cleveland's letter dated April 12, 1994).

Therefore, it is recommended that the construction permit, No. AC 27-240349, be issued as drafted, with the above changes and Attachments incorporated.



Florida Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

PERMITTEE:
Southdown, Inc. dba
Florida Mining & Materials
Post Office Box 6
Brooksville, Fl 34605-0006

Permit Number: AC 27-240349
Expiration Date: December 31, 1994
County: Hernando
Latitude/Longitude: 28°38'34"N
82°28'25"W
Project: No. 1 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 1, 1992 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of the No. 1 cement kiln to allow continuous utilization/firing of whole tires as a supplemental fuel to coal. The maximum utilization/firing rate is 20.0% of the total Btu heat input, or 2.14 tons per hour. The kiln's primary fuel is coal and supplemented with a blended re-refined used oil called Flolite. The facility is located in Brooksville, Hernando County, Florida. The UTM coordinates are Zone 17, 356.0 km East and 3169.9 km North.

The Source Industrial Code: 3241 Cement Manufacturing

The Source 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 application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Dr. John B. Koogler's Memorandum with Attachments received 6/22/93.
2. Dr. John B. Koogler's letter and with Enclosures received 7/30/93.
3. Dr. John B. Koogler's letter with Attachments received 8/18/93.
4. Mr. C. Anthony Cleveland's letter with Enclosures received 9/16/93.
5. Dr. John B. Koogler's letter received 10/14/93.

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Southdown, Inc. dba/FM&M

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Attachments cont.:

6. Mr. David A. Buff's letter received 10/19/93, via FAX.
7. Mr. C. Anthony Cleveland's letter received 10/26/93.
8. Mr. Don Kelly's letter with Enclosure and processing fee received 10/26/93.
9. Dr. John B. Koogler's FAX cover form with Attachment received 1/14/94.
10. 40 CFR (July 1, 1992 version).
11. Ms. Jewell A. Harper's letter dated April 4, 1990.
12. Intent to Issue package dated January 19, 1994.
13. Public Notice verification received February 22, 1994.
14. Dr. John B. Koogler's letter received February 2, 1994, via FAX (hard copy received February 4, 1994).
15. Dr. John B. Koogler's MEMORANDUM dated March 23, 1994, and received April 1, 1994, via FAX:
16. Mr. C. Anthony Cleveland's letter with Enclosure received April 12, 1994.
17. MEMORANDUM from John Koogler to Dave Buff, dated March 28, 1994 (Enclosure to C. Anthony Cleveland's letter dated April 12, 1994).
18. Final Determination dated April 14, 1994.

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

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Southdown, Inc. dba/FM&M

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GENERAL CONDITIONS:

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.

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.

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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 for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the 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 Part 60, Subpart F, Portland Cement Plants;

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.

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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 27-186923 and all associated documents and conditions are incorporated by reference.
2. Amendments to construction permit No. AC 27-186923 signed June 25, 1991, October 8, 1991, and March 31, 1992, and all associated documents and conditions are incorporated by reference.
3. Operation Permit No. AO 27-213207 and all associated documents and conditions are incorporated by reference.
4. In the No. 1 cement kiln, continuous whole tire-derived fuel (WTDF) utilization/firing shall be allowed (i.e., 8760 hrs/yr operation).
5. The No. 1 cement kiln's maximum utilization/firing rate of WTDF shall not exceed 20.0 percent of the total Btu heat input, or 2.14 tons per hour.
6. The utilization/firing rate of WTDF shall be quantified (weighed) continuously and recorded hourly; and, the records shall be kept on file for a minimum of two years.
7. The quantity of all deliveries of WTDF shall be documented and kept on record/file for a minimum of two years.

PERMITTEE:
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SPECIFIC CONDITIONS:

8. WTDF may be introduced into the No. 1 cement kiln only at a point at the base of the preheater (i.e., kiln exit).
9. WTDF firing in the No. 1 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 exit.
10. If there is 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. Any physical modifications to the WTDF feed mechanism utilized during the test burn of WTDF/coal that results in an increased feed rate, a change in the location where WTDF is introduced into the kiln, or the introduction of WTDF into the kiln through the use of a mechanism other than a double air lock feed system, may require a modification to this permit. If the WTDF feed mechanism is to be physically modified in this manner, a description of such modifications shall be submitted to FDEP and HCBCC 90 days prior to actual modification. FDEP and HCBCC shall review this information and, prior to any modification, determine whether further stack testing is required in order to determine if such modifications will result in an increase in actual emissions, whether a permit modification is necessary, and/or what the terms of any modified permit shall be. FDEP will provide a clear point of entry for Hernando County and any other substantially-affected parties to challenge any of FDEP's proposed determinations in this regard. FM&M shall bear the burden to provide reasonable assurances that such modifications will not affect the conclusions derived from the test burn of May and June, 1993.
11. Objectionable odors shall not be allowed off the facility's property in accordance with F.A.C. Rule 17-296.320.
12. While utilizing/firing WTDF with coal, the maximum allowable/potential carbon monoxide (CO) emissions shall not exceed 57.7 lbs/hr (1-hour average), 234.4 tons/yr, which was requested by the permittee to avoid new source review (NSR) requirements pursuant to Rules 17-212.400(2)(d) and (g) and 17-212.400(5), F.A.C.
13. Pursuant to Rule 17-212.400(2)(g), F.A.C., if there is any net increase in potential emissions of +0.1 tons/yr of CO above the maximum allowable/potential emissions of 234.4 tons/yr while utilizing/ firing WTDF with coal, the No. 1 cement kiln will be subject to NSR in accordance with Rule 17-212.400(5), F.A.C. For PSD tracking purposes, the net potential CO emissions are +99.9 tons/yr while utilizing/firing WTDF with coal.

PERMITTEE:
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SPECIFIC CONDITIONS:

14. An annual compliance test for CO while utilizing/firing WTDF with coal shall be conducted using EPA Reference Method 10, in accordance with Rule 17-297.400((10), F.A.C., and 40 CFR part 60, Appendix A (July 1, 1992 version).

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.

16. An annual operation report (AOR) shall be submitted to the Department's Southwest District office by March 1 reporting the No. 1 cement kiln's total amount, by weight, of the WTDF utilized/fired during the previous year.

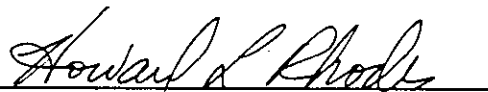
17. Daily sampling of the baghouse dust for the No. 1 kiln is required. The concentration of thallium in the baghouse dust shall not exceed 1.5%. Compliance shall be demonstrated using the "Thallium Concentration Monitoring and Analysis Procedure" as described in Mr. Bob Rogers's letter to Dr. John Koogler, dated January 12, 1994 (Attachment #9).

18. 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 (Rule 17-4.090, F.A.C.).

19. 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 permittee 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 (Rules 17-4.055 and 17-210.350, F.A.C.).

Issued this 15 day
of April, 1994

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Howard L. Rhodes
Director
Division of Air Resources Management

ATTACHMENTS 1 - 18

Available Upon Request

Florida Department of
Environmental Protection

Memorandum

TO: Howard L. Rhodes
FROM: Clair Fancy *CAF*
DATE: April 14, 1994
SUBJECT: Approval of Construction Permit
AC 27-240349: No. 1 Cement Kiln
Southdown, Inc./dba Florida Mining & Materials

Attached for your approval and signature is a construction permit prepared by the Bureau of Air Regulation for the above referenced company to allow continuous utilization of whole tires in the No. 1 cement kiln as a supplement to coal, which has been the primary fuel.

Southdown, Inc./dba Florida Mining & Materials is a major existing facility that produces cement from raw materials. The No. 1 cement kiln normally fires coal to provide heat to dry the raw materials fed 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. The facility is located off U.S. Highway 98 northwest of Brooksville, Hernando County, Florida.

There were no comments received during the public notice period. However, comments were received and have been addressed. Changes made to the proposed permit were not substantive and had no effect on the emissions review requirements.

I recommend your approval and signature.

CHF/BM/rbm