

# Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

April 9, 1991

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. C. M. Coleman Jr.  
Vice President and General Manager  
Florida Mining & Materials  
Post Office Box 6  
Brooksville, Florida 34749-0006

Dear Mr. Coleman:

Re: Requests to Allow Performance Tests While Burning Tire Derived Fuel and/or On-Specification Used Oil Fuel with Coal in the Nos. 1 and 2 Cement Kilns

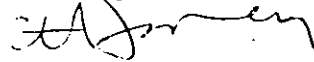
Attached is one copy of the proposed letter amendment to air construction permits, Nos. AC 27-186923 & AC 27-173474 and PSD-FL-124B, for Florida Mining & Materials (FM&M) to performance test the Nos. 1 and 2 Cement Kilns for pollutant emissions while firing: 1) 100% coal for baseline conditions (actuals); 2) 80% coal and 20% tire derived fuel (TDF); 3) 50% coal and 50% on-specification used oil fuel; and, 4) 30% coal, 20% TDF and 50% on-specification used oil fuel. All of the percentages (%) referenced above relate to the maximum total (100%) fuel input to the Nos. 1 and 2 Cement Kilns. The on-specification used oil fuel shall be as defined in 40 CFR 266.40 (July, 1990 version).

Although your company expects that there will be no actual pollutant emission increases from firing these fuel mixtures, the Nos. 1 and 2 Cement Kilns are not permitted to fire these fuels and such claims will have to be verified. Therefore, the purpose of this letter amendment is to allow FM&M the opportunity to obtain the data necessary to determine whether the Nos. 1 and 2 Cement Kilns are capable of accommodating TDF and/or on-specification used oil fuel with coal under the Nos. 1 and 2 Cement Kilns' present physical configurations and what regulations the Nos. 1 and 2 Cement Kilns will be subject to if they are to be permitted to fire TDF and/or on-specification used oil fuel with coal on a continuous basis.

Mr. C. M. Coleman Jr.  
April 9, 1991  
Page Two

If there are any questions, please call Bruce Mitchell at (904)488-1344 or submit any written comments you wish to have considered concerning the Department's proposed action to me.

Sincerely,



C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

CHF/BM/rbm

Attachments

c: B. Thomas, SW District  
J. Tessitore, P.E., C/T&A  
C. Shaver, NPS  
J. Harper, EPA  
C. Hetrick, HCBCC  
G. Smallridge, DER  
P. Cunningham, HBG&S

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Applications for Amendment by:

FM&M  
P. O. Box 6  
Brooksville, Florida 34605-0006

DER File Nos. AC 27-186923  
AC 27-173474  
PSD-FL-124B

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INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue an amendment (copy attached) for the proposed project as detailed in the applications for an amendment specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached letter amendment.

The applicant, Florida Mining & Materials (FM&M), requested on September 25, 1990, to the Department of Environmental Regulation for authorization to performance test the Nos. 1 and 2 Cement Kilns for pollutant emissions while firing: 1) 100% coal for baseline conditions (actuals); 2) 80% coal and 20% tire derived fuel (TDF); 3) 50% coal and 50% on-specification used oil fuel; and, 4) 30% coal, 20% TDF and 50% on-specification used oil fuel. All of the percentages (%) referenced above relate to the maximum total (100%) fuel input to the Nos. 1 and 2 Cement Kilns. The on-specification used oil fuel shall be as defined in 40 CFR 266.40 (July, 1990 version).

Although the applicant, FM&M, expects that there will be no actual pollutant emission increases, the Nos. 1 and 2 Cement Kilns are not permitted to fire these fuel mixtures and such claims will have to be verified. The purpose of this amendment is to allow FM&M the opportunity to obtain the data necessary to determine whether the Nos. 1 and 2 Cement Kilns are capable of accommodating TDF and/or on-specification used oil fuel with coal under the Nos. 1 and 2 Cement Kilns' present physical configurations and what regulations the Nos. 1 and 2 Cement Kilns will be subject to if they are to be permitted to fire TDF and/or on-specification used oil fuel with coal on a continuous basis. The proposed project will occur at the applicant's facility located on U.S. Highway 98 NW of Brooksville, Hernando County, Florida.

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

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue. The notice shall be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the

purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department, at the address specified within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the amendment.

The Department will issue the amendment with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

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

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

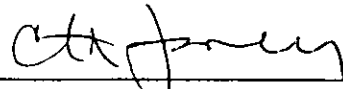
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applications have the

right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

Copies furnished to:

- |                           |                      |
|---------------------------|----------------------|
| B. Thomas, SW District    | G. Smallridge, DER   |
| J. Tessitore, P.E., C/T&A | P. Cunningham, HBG&S |
| C. Shaver, NPS            | C. Hetrick, HCBCC    |
| J. Harper, EPA            |                      |

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 4-12-91.

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

Roni Saben 4-12-91  
Clerk Date

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

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit amendment to Florida Mining & Materials (FM&M), Post Office Box 6, Brooksville, Florida 34605-0006, to conduct performance tests on the Nos. 1 and 2 Cement Kilns for pollutant emissions while firing: 1) 100% coal for baseline conditions (actuals); 2) 80% coal and 20% tire derived fuel (TDF); 3) 50% coal and 50% on-specification used oil fuel; and, 4) 30% coal, 20% TDF and 50% on-specification used oil fuel. All of the percentages (%) referenced above relate to the maximum total (100%) fuel input of the Nos. 1 and 2 Cement Kilns. The on-specification used oil fuel shall be as defined in 40 CFR 266.40 (July, 1990 version).

Although the applicant, FM&M, expects that there will be no actual pollutant emission increases, the Nos. 1 and 2 Cement Kilns are not permitted to fire these fuel mixtures and such claims will have to be verified. The purpose of this amendment is to allow FM&M the opportunity to obtain the data necessary to determine whether the Nos. 1 and 2 Cement Kilns are capable of accommodating TDF and/or on-specification used oil fuel with coal under the Nos. 1 and 2 Cement Kilns' present physical configurations and what regulations the Nos. 1 and 2 Cement Kilns will be subject to if they are to be permitted to fire TDF and/or on-specification used oil fuel with coal on a continuous basis. The proposed project will occur at the applicant's facility located on U.S. Highway 98 NW of Brooksville, Hernando County, Florida. The Department is issuing this Intent to Issue for the reasons stated in the proposed letter amendment to air construction permits, Nos. AC 27-186923 & AC 27-173474 and PSD-FL-124B.

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

The Petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applications have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

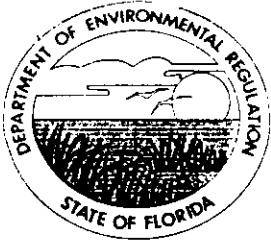
The applications are available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Department of Environmental Regulation  
Southwest District Office  
4520 Oak Fair Boulevard  
Tampa, Florida 33610-7347

Hernando County Board of County Commission  
20 North Main Street, Room 460  
Brooksville, Florida 34601

Any person may send written comments on the proposed action to Mr. Barry Andrews at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.



## Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. C. M. Coleman Jr.  
Vice President and General Manager  
Florida Mining & Materials  
Post Office Box 6  
Brooksville, Florida 34605-0006

Dear Mr. Coleman:

Re: Amendment to Construction Permits Nos. AC 27-186923 & AC 27-173474 and PSD-FL-124B to Conduct Performance Test(s) on the Nos. 1 and 2 Cement Kilns While Burning Tire Derived Fuel and/or On-Specification Used Oil Fuel with Coal.

The Department has reviewed the requests that you provided on September 25, 1990. We have also considered the Department's legal authority to allow you to conduct the requested performance test(s). Paragraph 403.061(15), Florida Statutes (F.S.), authorizes the Department to consult with any person proposing to construct, install, or otherwise acquire a pollution control device or system concerning the efficacy of such device or system, or the pollution problem which may be related to the source, device, or system. Paragraph 403.061(16), F.S., authorizes the Department to encourage voluntary cooperation by persons in order to achieve the purposes of the state environmental control act. Paragraph 403.061(18), F.S., authorizes the Department to encourage and conduct studies, investigations, and research relating to the causes and control of pollution. Florida Administrative Code (F.A.C.) Rule 17-2.250(5) authorizes the Department to consider variations in industrial equipment and make allowances for excess emissions that provide practical regulatory controls consistent with the public interest.

In accordance with the provisions of Paragraphs 403.061(15), (16) and (18), F.S., and F.A.C. Rule 17-2.250(5), you are hereby authorized to conduct performance tests the Nos. 1 and 2 Cement Kilns for pollutant emissions while firing: 1) 100% coal for baseline conditions (actuals); 2) 80% coal and 20% tire derived fuel (TDF); 3) 50% coal and 50% on-specification used oil fuel; and, 4) 30% coal, 20% TDF and 50% on-specification used oil fuel. All of the percentages (%) referenced above relate to the maximum total (100%) fuel input to the Nos. 1 and 2 Cement Kilns.



Mr. C. M. Coleman Jr.  
Page Two

The purpose of this authorization is to provide FM&M the opportunity to obtain performance test data on the Nos. 1 and 2 Cement Kilns to verify pollutant emissions and to see if the Nos. 1 and 2 Cement Kilns are capable of accommodating TDF and/or on-specification used oil fuel with coal under the Nos. 1 and 2 Cement Kilns' present physical configuration and what regulations the Nos. 1 and 2 Cement Kilns will be subject to if they are to be permitted to fire TDF and/or on-specification used oil fuel with coal on a continuous basis.

The performance test(s) shall be subject to the following conditions.

1. The permittee shall notify, in writing, the Department's Southwest District and Bureau of Air Regulation offices at least 15 days prior to commencement of the performance test(s). The test reports shall be submitted to these offices no later than 45 days upon completion of the last test run.
2. Prior to or after conducting pollutant emissions tests on the Nos. 1 and 2 Cement Kilns while firing combinations of TDF and/or on-specification used oil fuel with coal (Post-tests; Tables 1, 2, 3, 4 and 5;), emissions tests (Pre-tests) shall be conducted on the Nos. 1 and 2 Cement Kilns while firing 100% coal for all of the identified pollutants and pollutant categories (Table 2) in order to establish background levels, unless performance tests have already been conducted and the results can be provided to the Department. These tests, "Pre-tests" (i.e. coal only), shall be compared to the post-tests (TDF and/or on-specification used oil fuel with coal) to determine if:
  - a. PSD or non-PSD review is required, which includes the construction permit application(s) and the appropriate processing fee(s); or,
  - b. The current construction permits can be amended to allow the use of TDF and/or on-specification used oil fuel with coal.
3. All post-test results shall be compared to "actual emissions" for PSD review purposes (see Region IV, U.S. EPA's letter dated April 4, 1990).
4. a. The performance tests shall be in accordance with Table 1;

- b. The test parameters and methods shall be in accordance with Table 2; however, other test methods may be used if prior written approval from the Department has been received;
  - c. The performance test fuel combination scenarios shall be in accordance with Table 3;
  - d. The on-specification used oil fuel shall be as defined in 40 CFR 266.40 (July, 1990 version) and shall not exceed the constituent/property levels specified in Table 6 (40 CFR 266.40(e)); total halogens shall be limited to 1,000 ppm maximum;
  - e. Analysis and recordkeeping for on-specification used oil fuel shall be in accordance with 40 CFR 266.43(b)(1) and (6);
  - f. Maximum process input rates shall be in accordance with Table 5;
  - g. The use of on-specification used oil fuel shall be in accordance with all applicable provisions of 40 CFR 266, Subpart E (July, 1990 version); and,
  - h. An ultimate analysis of each delivery of on-specification used oil fuel shall be required and submitted to the Department prior to performance testing and shall establish, at a minimum, the levels of the sulfur content (weight %), metals on a constituent basis, moisture content, etc., using the appropriate ASTM Methods (i.e., ASTM D1552-83, ASTM D396-78, ASTM D129-64, etc.) in accordance with F.A.C. Rule 17-2.700 and 40 CFR (July, 1990 version).
5. An ultimate analysis of the particulate filter(s) shall be required. Also, an ultimate analysis of a representative sample(s) from the baghouse hopper shall be required.
6. This authorized performance test(s) shall not result in the release of objectionable odors pursuant to F.A.C. Rule 17-2.620(2).
7. Performance testing shall immediately cease upon the occurrence of a valid environmental complaint by a citizen or other party, or a nuisance or danger to public health or welfare. Performance testing shall not resume until appropriate measures to correct the problem have been implemented.

Mr. C. M. Coleman Jr.  
Page Four

8. The performance test(s) shall be conducted under the direct supervision and responsible charge of a professional engineer registered in Florida.
9. This Department action is just to authorize the performance tests for pollutant emissions on the Nos. 1 and 2 Cement Kilns while firing TDF and/or on-specification used oil fuel with coal. The firing of TDF and used oil after the last performance test run is completed will be deemed a violation of the current air construction permits, Nos. AC 27-186923 & AC 27-173474 and PSD-FL-124B.
10. Complete documentation of the amount (i.e., weight or volume) of TDF and on-specification used oil fuel usage in the Nos. 1 and 2 Cement Kilns shall be required (i.e., start-up and testing).
11. The Department shall be notified in writing on the date of the last test run completion.
12. From the initial date of using TDF and on-specification used oil fuel, which shall be documented in writing to the Department, the permittee shall be limited to 45 days to stabilize the Nos. 1 and 2 Cement Kilns and to submit notification of performance testing. If additional time is needed, the permittee shall provide the Department with documentation of the progress accomplished to date and shall identify what is left to be done in order to achieve stabilization of the Nos. 1 and 2 Cement Kilns for performance testing purposes.
13. Visible emissions shall not exceed 10% opacity in accordance with EPA Method 9 pursuant to F.A.C. Rules 17-2.660 and 17-2.700 and 40 CFR 60 (July, 1990 version).
14. This amendment does not relieve the permittee from complying with the conditions of the construction permits, Nos. AC 27-186923 & AC 27-173474 and PSD-FL-124.
15. Attachments (See Attachment Section) are incorporated.

The Department has relied on the information referenced in the Attachments and conversations with representatives of FM&M, the U.S. EPA-Region IV, and the Department of Interior's National Park Service in authorizing this permit letter amendment to the air construction permits, Nos. AC 27-186923 & AC 27-173474 and PSD-FL-124B.

Mr. C. M. Coleman Jr.  
Page Five

A copy of this letter and its Attachments shall be attached to the air construction permits, Nos. AC 27-186923 & AC 27-173474 and PSD-FL-124B.

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1991

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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Carol M. Browner  
Secretary

CMB/bm

Attachments

cc: B. Thomas, SW District  
J. Tessitore, P.E., C/T&A  
C. Shaver, NPS  
J. Harper, EPA  
G. Smallridge, DER  
P. Cunningham, HBG&S  
C. Hetrick, HCBCC

TABLE 1

PROCESS DATA

Cement Kiln No. 1 or 2

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Kiln Feed Rate	130 T/hr
Clinker Production Rate	79.6 T/hr
Maximum Heat Input	$3.0 \times 10^8$ Btu/hr

TABLE 2  
 PROPOSED PERFORMANCE TEST MATRIX  
 Cement Kiln No. 1 or 2

The proposed testing would include stack sampling during four separate cases for the kiln. These are represented in the following matrix.

Fuel Type	Test Conditions			
	1*	2	3	4
	% of Total Fuel Supply			
Coal (min.)	100	80	50	30
Waste Tires (max.)	0	20	0	20
Used Oil (max.)	0	0	50	50

\*Baseline

TABLE 3  
FUEL COMBINATION SUMMARY DATA  
Cement Kiln No. 1 or 2

	<u>Current Fuels</u>		<u>Proposed Fuels</u>	
	<u>Coal</u>	<u>Flolite<sup>1</sup></u>	<u>Waste Tires</u>	<u>Used Oil</u>
<b>Case 1</b>				
Consumption	24,170 lb/hr	--	0	0
Heat Input (Btu/hr)	$3.0 \times 10^8$	--	0	0
Portion of Total				
Fuel Supply (%)	100	--	0	0
<b>Case 2</b>				
Consumption	19,336 lb/hr	--	4286 lb/hr	0
Heat Input (Btu/hr)	$2.4 \times 10^8$	--	$0.6 \times 10^8$	0
Portion of Total				
Fuel Supply (%)	80	--	20	0
<b>Case 3</b>				
Consumption	12,085 lb/hr	--	0	1034 gal/hr
Heat Input (Btu/hr)	$1.5 \times 10^8$	--	0	$1.5 \times 10^8$
Portion of Total				
Fuel Supply (%)	50	--	0	50
<b>Case 4</b>				
Consumption	7251 lb/hr	--	4286 lb/hr	1034 gal/hr
Heat Input (Btu/hr)	$0.9 \times 10^8$	--	$0.6 \times 10^8$	$1.5 \times 10^8$
Portion of Total				
Fuel Supply (%)	30	--	20	50

1 Flolite will mainly be used during start-up of kiln operations and during periods when raw materials feed is stopped and kiln temperature must be maintained, and flolite is normally used only as a substitute for coal. In cases where flolite and coal are used concurrently, the maximum heat input rate will not exceed  $3.0 \times 10^8$  Btu/hr.

TABLE 4  
ADDITIONAL FUELS DATA

	Heat Capacity	Sulfur Content <sup>2</sup>
Current:		
Coal	12,500 Btu/lb	1.0 %
Flolite <sup>1</sup>	145,000 Btu/gal	1.0 %
Proposed:		
Used Oil	145,000 Btu/gal	1.5 %
Waste Tires	14,000 Btu/lb	<1.0 %

- (1) Flolite will mainly be used during start-up of kiln operations and during periods when raw materials feed is stopped and kiln temperature must be maintained, and flolite is normally used only as a substitute for coal. In cases where flolite and coal are used concurrently, the maximum heat input rate will not exceed  $3.0 \times 10^6$  Btu/hr.
- (2) Values shown are approximate.



TABLE 5

## SUMMARY OF TEST PARAMETERS

Particulate Matter	EPA Method 5
Visible Emissions	EPA Method 9
Metals:	EPA Method 5 (filter and probe rinse)
Aluminum	Barium
Arsenic	Copper
Cadmium	Nickel
Chromium (Total)	Iron
Lead	Vanadium
Zinc	
NO <sub>x</sub>	EPA Method 7
Sulfur Dioxide	EPA Method 6 (in back half of Method 5 train)
Carbon Monoxide	EPA Method 10
Volatile Organic Compounds	VOST
Semi-Volatile Organic Compounds	Modified Method 5
CO <sub>2</sub> /O <sub>2</sub>	EPA Method 3
Stack Gas Flow/Moisture/Temp.	EPA Methods 2 and 4 (in conjunction with EPA Method 5)
PCDDS/PCDFS	EPA Method 23
Polynuclear Aromatic Hydrocarbons	Modified Method 5
Benzene	EPA Method 18
Mercury	EPA Method 101 or 101A

TABLE 6

## ON-SPEC USED OIL FUEL CHARACTERISTICS

As specified in 40 CFR 266.40(e), "Used Oil Burned For Energy Recovery", the following characteristics are applicable to on-specification used oil fuel:

Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Flash Point	100° F minimum
Total Halogens	1,000 ppm maximum

Attachment Section

1. Ms. Patricia K. Rykowski's letter with enclosures received September 25, 1990.
2. Ms. Jewell A. Harper's letter dated April 4, 1990.
3. 40 CFR (July, 1990 version).
4. Ms. Kay Rykowski's letter received April 1, 1991, via FAX.
5. Intent to Issue Package dated April 9, 1991.
6. 40 CFR 266, Subpart E (July, 1990 version)

ATTACHMENT 1

Available Upon Request

ATTACHMENT 2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

APR 4 1990

4APT-AEB

RECEIVED

APR 09 1990

DER-BAQM

Mr. C. H. Fancy, P.E., Chief  
Bureau of Air Regulation  
Florida Department of Environmental  
Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RE: Florida Crushed Stone (PSD-FL-091)

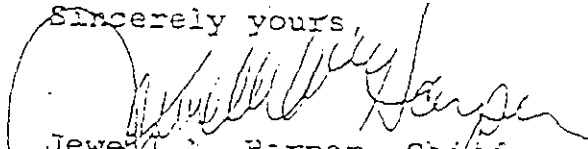
Dear Mr. Fancy:

This is to acknowledge receipt of your letter dated March 15, 1990, transmitting a request by Florida Crushed Stone to amend their prevention of significant deterioration (PSD) permit to allow the burning of tire derived fuel (TDF) in their cement kiln. The current permit for the source limits the fuel of the kiln to coal only. As discussed between Mr. Bruce Mitchell of your staff and Mr. Gregg Worley of my staff on March 30, 1990, we have the following comments.

Under the scenario presented by the source, the switch to the use of TDF in the kiln would not constitute a major modification for the purposes of PSD provided that the increase in pollutants due to the fuel switch did not exceed significant emissions increase levels. It is important to note that the change in emissions must be evaluated from "old actual" to "new allowable" emissions. The old actual emissions must be based on the previous two years of operating data unless some other period is deemed to be more representative of normal operating conditions. The new allowable emissions will be those emissions which are reflected in the amended permit. Also, it was noted that the list of pollutants to be tested did not include benzene. Since benzene is a pollutant regulated under the Clean Air Act for which a significant emissions rate has not been established, any increase of emissions of benzene would subject the source to PSD.

Thank you for the opportunity to review and comment on this package. If you have any further questions or comments, please do not hesitate to contact Mr. Gregg Worley of my staff at 404/347-1864.

Sincerely yours,

  
Jewett A. Harper, Chief  
Air Enforcement Branch  
Air, Pesticides and Toxics  
Management Division

ATTACHMENT 3

Available Upon Request

ATTACHMENT 4



CROSS/TESSITORE & ASSOCIATES, P.A.  
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URGENT FACSIMILE DOCUMENT

ATTN: BRUCE MITCHELL FAX#: 904-487-4938

COMPANY: FDER/BUREAU OF AIR REGULATION

FROM: KAY RYKOWSKI FAX#: 407-855-0369

SUBJECT: FLORIDA MINING & MATERIALS

C/TA PROJECT NUMBER: F03.178

DATE: MARCH 29, 1991

NO. OF PAGES (INCLUDING THIS SHEET): 1 HARD COPY TO FOLLOW YES X NO

Bruce:

My records show the current permit for Florida Mining & Materials' No. 2 Kiln as AC27-173474 which expires December 31, 1991. Please let me know if the extension is still required.

Thank you,  
Kay Rykowski

ATTACHMENT 6

(d) *Required notices.* Before a burner accepts the first shipment of hazardous waste fuel from a marketer, he must provide the marketer a one-time written and signed notice certifying that:

(1) He has notified EPA and identified his waste-as-fuel activities; and

(2) He will burn the fuel only in a boiler or furnace identified in § 266.31(b).

(e) *Recordkeeping.* In addition to the applicable recordkeeping requirements of Parts 264 and 265 of this chapter, a burner must keep a copy of each certification notice that he sends to a marketer for three years from the date he last receives hazardous waste fuel from that marketer.

(The notification requirements contained in paragraph (b) of this section were approved by the Office of Management and Budget under control number 2050-0028. The storage requirements contained in paragraph (c) of this section were approved by the Office of Management and Budget under control number 2050-0009. The certification requirements contained in paragraph (d) of this section were approved by the Office of Management and Budget under control number 2050-0047. The recordkeeping requirements contained in paragraph (e) of this section were approved by the Office of Management and Budget under control number 2050-0047.)

(50 FR 49204, Nov. 29, 1985, as amended at 52 FR 11821, Apr. 13, 1987)

### Subpart E—Used Oil Burned for Energy Recovery

SOURCE: 50 FR 49205, Nov. 29, 1985, unless otherwise noted.

#### § 266.40 Applicability.

(a) The regulations of this subpart apply to used oil that is burned for energy recovery in any boiler or industrial furnace that is not regulated under Subpart O of Part 264 or 265 of this chapter; except as provided by paragraphs (c) and (e) of this section. Such used oil is termed "used oil fuel". Used oil fuel includes any fuel produced from used oil by processing, blending, or other treatment.

(b) "Used oil" means any oil that has been refined from crude oil, used, and, as a result of such use, is contaminated by physical or chemical impurities.

(c) Except as provided by paragraph (d) of this section, used oil that is mixed with hazardous waste and burned for energy recovery is subject to regulation as hazardous waste fuel under Subpart D of Part 266. Used oil containing more than 1000 ppm of total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in Subpart D of Part 261 of this chapter. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by showing that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII of Part 261 of this chapter).

(d) Used oil burned for energy recovery is subject to regulation under this subpart rather than as hazardous waste fuel under Subpart D of this part if it is a hazardous waste solely because it:

(1) Exhibits a characteristic of hazardous waste identified in Subpart C of Part 261 of this chapter, provided that it is not mixed with a hazardous waste; or

(2) Contains hazardous waste generated only by a person subject to the special requirements for small quantity generators under § 261.5 of this chapter.

(e) Except as provided by paragraph (c) of this section, used oil burned for energy recovery, and any fuel produced from used oil by processing, blending, or other treatment, is subject to regulation under this subpart unless it is shown not to exceed any of the allowable levels of the constituents and properties in the specification shown in the following table. Used oil fuel that meets the specification is subject only to the analysis and recordkeeping requirements under § 266.43(b) (1) and (6). Used oil fuel that exceeds any specification level is termed "off-specification used oil fuel".

#### § 266.41

USED OIL EXCEEDING ANY SPECIFICATION LEVEL IS SUBJECT TO THIS SUBPART WHEN BURNED FOR ENERGY RECOVERY \*

Constituent/property	Allowable level
Arsenic.....	5 ppm maximum.
Cadmium.....	2 ppm maximum.
Chromium.....	10 ppm maximum.
Lead.....	100 ppm maximum.
Flash Point.....	100 °F minimum.
Total Halogens.....	4,000 ppm maximum.*

\* The specification does not apply to used oil fuel mixed with a hazardous waste other than small quantity generator hazardous waste.

\* Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under § 266.40(c). Such used oil is subject to Subpart D of this part rather than this subpart when burned for energy recovery unless the presumption of mixing can be successfully rebutted.

#### § 266.41 Prohibitions.

(a) A person may market off-specification used oil for energy recovery only:

(1) To burners or other marketers who have notified EPA of their used oil management activities stating the location and general description of such activities, and who have an EPA identification number; and

(2) To burners who burn the used oil in an industrial furnace or boiler identified in paragraph (b) of this section.

(b) Off-specification used oil may be burned for energy recovery in only the following devices:

(1) Industrial furnaces identified in § 260.10 of this chapter; or

(2) Boilers, as defined in § 260.10 of this chapter, that are identified as follows:

(i) Industrial boilers located on the site of a facility engaged in a manufacturing process where substances are transformed into new products, including the component parts of products, by mechanical or chemical processes;

(ii) Utility boilers used to produce electric power, steam, or heated or cooled air or other gases or fluids for sale; or

(iii) Used oil-fired space heaters provided that:

(A) The heater burns only used oil that the owner or operator generates or used oil received from do-it-yourself oil changers who generate used oil as household waste;

(B) The heater is designed to have a maximum capacity of not more than 0.5 million Btu per hour; and

(C) The combustion gases from the heater are vented to the ambient air.

§ 266.42 Standards applicable to generators of used oil burned for energy recovery.

(a) Except as provided in paragraphs (b) and (c) of this section, generators of used oil are not subject to this subpart.

(b) Generators who market used oil directly to a burner are subject to § 266.43.

(c) Generators who burn used oil are subject to § 266.44.

§ 266.43 Standards applicable to marketers of used oil burned for energy recovery.

(a) Persons who market used oil fuel are termed "marketers". Except as provided below, marketers include generators who market used oil fuel directly to a burner, persons who receive used oil from generators and produce, process, or blend used oil fuel from these used oils (including persons sending blended or processed used oil to brokers or other intermediaries), and persons who distribute but do not process or blend used oil fuel. The following persons are not marketers subject to this subpart:

(1) Used oil generators, and collectors who transport used oil received only from generators, unless the generator or collector markets the used oil directly to a person who burns it for energy recovery. However, persons who burn some used oil fuel for purposes of processing or other treatment to produce used oil fuel for marketing are considered to be burning incidentally to processing. Thus, generators and collectors who market to such incidental burners are not marketers subject to this subpart;

(2) Persons who market only used oil fuel that meets the specification under § 266.40(e) and who are not the first person to claim the oil meets the specification (i.e., marketers who do not receive used oil from generators or initial transporters and marketers who

Department of Environmental Regulation  
**Routing and Transmittal Slip**

To: (Name, Office, Location)

1.

*Bruce Mitchell*

2.

3.

4.

Remarks:

*070-EC-124B*

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APR 1 1991  
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Date

Phone

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