

# Memorandum

# Florida Department of Environmental Protection

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TO: ~~Trina Vielhauer~~ *ajf*  
THROUGH: Al Linero *ajf*  
FROM: Teresa Heron  
DATE: August 14, 2008  
SUBJECT: CEMEX Brooksville Cement Plant  
DEP File No. 0530021-015-AC  
South Brooksville Cement Plant – Kiln 2  
Extension of Expiration Date, Tire Injection Mechanism System (TIMS)

This project is subject to minor source preconstruction review. It is actually a change to a project permitted under the major source preconstruction reviews rules and still under construction. Attached for your review are the following items:

- Written Notice of Intent to Issue Air Permit Modification;
- Public Notice of Intent to Issue Air Permit Modification;
- Technical Evaluation and Preliminary Determination;
- Draft Permit (letter) Modification; and
- P.E. Certification.

The Draft Permit Modification authorizes installation of a tire injection mechanism system (TIMS) and extends the expiration date of the Kiln 2 air construction permit. The proposed work will be conducted at CEMEX South Brooksville Cement Plant, which is located in Hernando County, Florida. The Technical Evaluation and Preliminary Determination document provides a detailed description of the project and the rationale for issuance. The P.E. certification briefly summarizes the proposed project. I recommend your approval of the attached Draft Permit.

Attachments

# PROFESSIONAL ENGINEER CERTIFICATION STATEMENT

## PERMITTEE

Florida Crushed Stone d.b.a. CEMEX, Inc.  
10311 Cement Plant Road  
Brooksville, Florida 32669

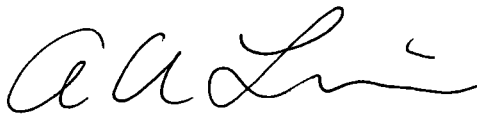
DEP File No. 0530021-015-AC (PSD-FL-351A)  
South Brooksville Cement Plant, Kiln 2  
Tire Injection Mechanism System (TIMS)  
Hernando County, Florida

**Project:** On May 30 and July 29, 2008, CEMEX submitted permit modification applications requesting extension of the expiration date of the Kiln 2 air construction permit and authorization to install a TIMS. Tires were already permitted to be used as fuel for Kiln 2 (presently under construction) by introduction near the feed end (cold side) of the kiln. The TIMS project will provide for introduction of tires near the product end of the kiln (hot side) without changing the permitted emission, production or fuel use limits.

Kiln 2 was permitted in 2005 and was subject to the rules for the prevention of significant deterioration (PSD) and a determination of best available control technology (BACT). I have received reasonable assurance that the installation and operations of a TIMS can be accomplished while meeting the requirements of the previously conducted PSD review and BACT determination.

I prepared and the Department distributed a technical evaluation and preliminary determination containing the details of the project and rationale for the preliminary decision to issue a permit for the TIMS.

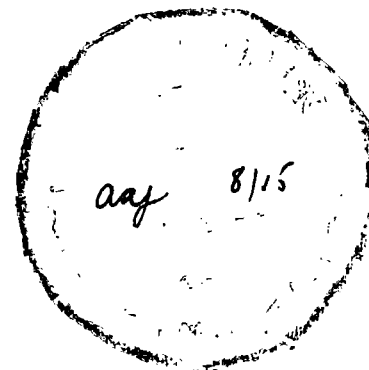
***I HEREBY CERTIFY** that the air pollution control engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including, but not limited to, the electrical, mechanical, structural, hydrological, geological, and meteorological features).*



8/15/08

Alvaro A. Linero, P.E.  
Registration Number: 26032

(Date)





# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blairstone Road  
Tallahassee, Florida 32399-2400

Charlie Crist  
Governor  
Jeff Kottkamp  
Lt. Governor  
Michael W. Sole  
Secretary

August 15, 2008

*Electronically sent – Received Receipt requested.*

[jdaniel@cemexusa.com](mailto:jdaniel@cemexusa.com)

James S. Daniel, Plant Manager  
South Brooksville Cement Plant  
Florida Crushed Stone, d.b.a. CEMEX, Inc.  
10311 Cement Plant Road  
Brooksville, Florida 32669

Re: DEP File No. 0530021-015-AC  
South Brooksville Cement Plant – Kiln 2  
Extension of Expiration Date, Tire Injection Mechanism System (TIMS)

Dear Mr. Daniel:


On May 30 and July 29, 2008, you submitted applications for air construction permit modifications to extend the expiration date to complete the construction of and to install a TIMS on Kiln 2 at the facility identified above. Enclosed are the following documents:

- Written Notice of Intent to Issue Air Permit Modification;
- Public Notice of Intent to Issue Air Permit Modification;
- Technical Evaluation and Preliminary Determination; and
- Draft Permit (letter) Modification.

The Public Notice of Intent to Issue Air Permit Modification is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project.

If you have any questions, please contact the Project Engineer, Teresa Heron, at (850) 921-9529 or A. A. Linero, Program Administrator at (850) 921-9523.

Sincerely,

  
for Trina Vielhauer, Chief  
Bureau of Air Regulation

TLV/aal/th

Enclosures

## WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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In the Matter of an  
Application for Air Permit by:

Mr. James S. Daniel, Plant Manager  
South Brooksville Cement Plant  
Florida Crushed Stone d.b.a. CEMEX, Inc.  
10311 Cement Plant Road  
Brooksville, Florida 32669

DEP File No. 0530021-015-AC (PSD-FL-351A)  
South Brooksville Cement Plant  
Portland Cement Kiln 2  
Tire Injection Mechanism System (TIMS)  
Hernando County, Florida

**Facility Location:** The applicant, CEMEX, operates the existing South Brooksville Cement Plant, which is located in Hernando County at 10311 Cement Plant Road in Brooksville, Florida.

**Project:** On May 30 and July 29, 2008, CEMEX submitted permit modification applications requesting extension of the expiration date of the Kiln 2 air construction permit and authorization to install a TIMS. Tires were already permitted to be used as fuel for Kiln 2 (presently under construction) by introduction near the feed end (cold side) of the kiln. The TIMS project will provide for introduction of tires near the product end of the kiln (hot side) without changing the permitted emission, production or fuel use limits.

**Permitting Authority:** Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite 4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, Mail Station (MS) 5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

**Project File:** A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the applications, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above. In addition, electronic copies of these documents are available by entering the file number provided above where indicated on the following web site:

<http://www.dep.state.fl.us/air/eproducts/apds/default.asp> .

**Notice of Intent to Issue Permit:** The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

**Public Notice:** Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S. in the county

## WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

**Comments:** The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be postmarked by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 14-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

**Petitions:** A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.


A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

**WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT**

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

**Mediation:** Mediation is not available in this proceeding.

Executed in Tallahassee, Florida.

  
for Trina L. Vielhauer, Chief  
Bureau of Air Regulation

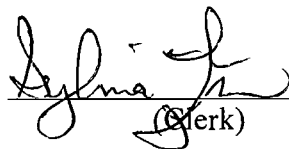
**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Intent to Issue Air Permit package (including the Written Notice of Intent to Issue Air Permit, the Public Notice of Intent to Issue Air Permit, the Technical Evaluation and Preliminary Determination, and the Draft Permit) was sent by electronic mail with received receipt requested before the close of business on 8/15/08 to the persons listed below.

- James S. Daniel, CEMEX: [jdaniel@cemexusa.com](mailto:jdaniel@cemexusa.com)
- Mike Aller, CEMEX: [maller@cemexusa.com](mailto:maller@cemexusa.com)
- George Townsend, CEMEX: [gtownsend@cemexusa.com](mailto:gtownsend@cemexusa.com)
- Lillian F. DePrimo, CEMEX: [lillianf.deprimo@cemex.com](mailto:lillianf.deprimo@cemex.com)
- Mara Nasca, DEP SWD: [mara.nasca@dep.state.fl.us](mailto:mara.nasca@dep.state.fl.us)
- Fawn Bergen, P.E., K&A: [fbergen@kooglerassociates.com](mailto:fbergen@kooglerassociates.com)
- Administrator, Hernando County [gkuhl@hernandocounty.us](mailto:gkuhl@hernandocounty.us)
- Kathy Forney, EPA Region 4: [forney.kathleen@epamail.epa.gov](mailto:forney.kathleen@epamail.epa.gov)

Clerk Stamp

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

  
\_\_\_\_\_  
(Clerk)

8/15/08  
(Date)

## PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection  
Division of Air Resource Management, Bureau of Air Regulation  
Draft Air Permit No. 0530021-015-AC (PSD-FL-351A)  
CEMEX, Inc., South Brooksville Cement Plant Kiln 2  
Hernando County

**Applicant:** The applicant for this project is Florida Crushed Stone Company d.b.a. as CEMEX, Inc. The applicant's authorized representative and mailing address is: Mr. James S. Daniel, Plant Manager, Cemex South Brooksville Cement Plant, 10311 Cement Plant Road, Brooksville, Florida 32669.

**Facility Location:** The applicant, CEMEX, operates the existing South Brooksville Cement Plant, which is located in Hernando County at 10311 Cement Plant Road in Brooksville, Florida.

**Project:** On May 30 and July 29, 2008, CEMEX submitted permit modification applications requesting extension of the expiration date of the Kiln 2 air construction permit and authorization to install a tire injection mechanism system (TIMS). Tires were already permitted to be used as fuel for Kiln 2 (presently under construction) by introduction near the feed end (cold side) of the kiln. The TIMS project will provide for introduction of tires near the product end of the kiln (hot side) without changing the permitted emission, production or fuel use limits.

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A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Public Notice. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

**Mediation:** Mediation is not available in this proceeding.



TECHNICAL EVALUATION  
AND  
PRELIMINARY DETERMINATION

Florida Crushed Stone Company (d.b.a. CEMEX, Inc.)  
Installation of a Tire Injection Mechanism System (TIMS) on Kiln No.2  
South Brooksville Facility  
Portland Cement Plant  
Hernando County

DEP File No. 0530021-015-AC  
PSD-FL-351A

Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation

August 15, 2008

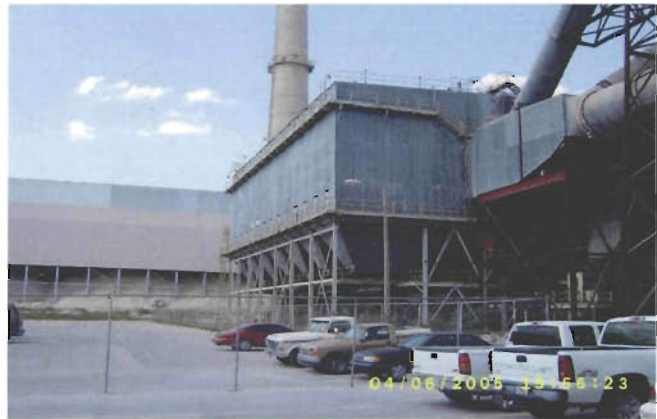
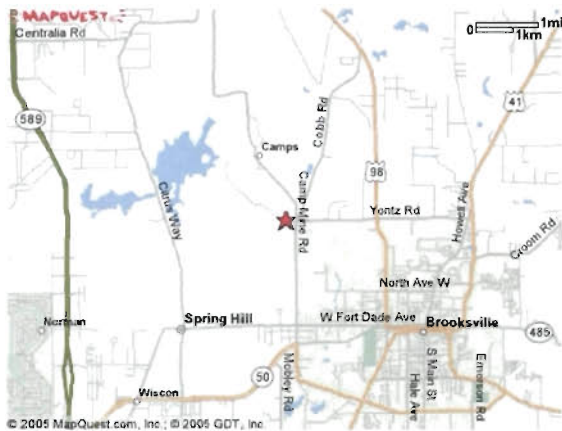
# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

## 1. GENERAL PROJECT INFORMATION

### Facility Description and Location

The facility is a portland cement plant, which is categorized under Standard Industrial Classification (SIC) Code No. 3241. The UTM coordinates are Zone 17; 360.00 km East and 3162.5 km North. This site is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to a National Ambient Air Quality Standard (NAAQS).

The following map indicates the location of the existing CEMEX South Brooksville Cement Plant that consists of a portland cement line (Kiln 1) and a co-located power plant called Central Power and Lime. The picture is of the existing main baghouse and stack, which are shared by Kiln 1 and the power plant. A second line (Kiln 2) is presently under construction and is the subject of this evaluation.



### CEMEX South Brooksville Cement Plant. Baghouse and Stack for Kiln 1 and Power Plant

### Facility Regulatory Categories

Title III: The existing facility is identified as a potential major source of hazardous air pollutants (HAP).

Title IV: The existing facility has no units subject to the acid rain provisions of the Clean Air Act. A co-located coal-fueled power plant considered part of the facility applied to become a Title IV source.

Title V: The existing facility is a Title V major source of air pollution in accordance with Chapter 213, Florida Administrative Code (F.A.C.)

Prevention of Significant Deterioration (PSD): The existing facility is a PSD-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

### Project Description

CEMEX Cement submitted an application for an air construction permit modification for Kiln 2 subject to the preconstruction review requirements of Rule 62-212.300, F.A.C. Following is the description of the affected emissions unit. The application is available at:

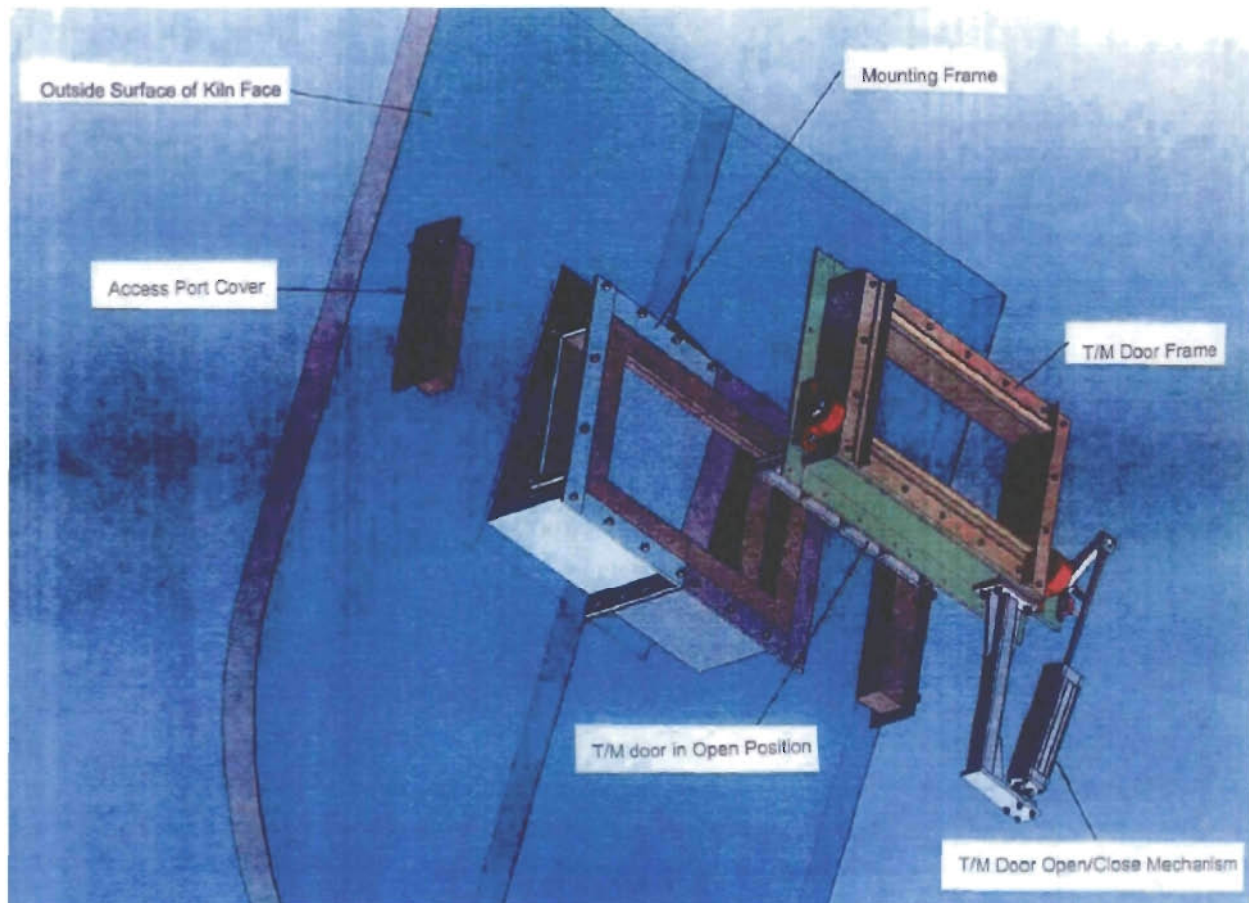
[www.dep.state.fl.us/Air/permitting/construction/rinker/TIMSApplication.pdf](http://www.dep.state.fl.us/Air/permitting/construction/rinker/TIMSApplication.pdf)

The present description of the affected emissions unit given in the existing construction permit is given in the following table:

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

ID No.	EMISSIONS UNIT DESCRIPTION
044	Kiln No. 2, Pre-Heater, Pre-Calcliner, Clinker Cooler, Air Heater

The project consists of the installation of a tire injection mechanism system (TIMS) near the product end (hot side) of Kiln 2 that is presently under construction. The TIMS will consist of a door located near the product end (hot side) of the kiln, a tire belt and roller apparatus, and a tire injection mechanism. The door is shown in the following diagram.



### Components of the TIMS that will be physically attached to Kiln 2

The TIMS will use an automated “pitching” device (not shown) located outside of the kiln to shoot tires, one at a time, into the kiln. A single gate valve on the kiln will open for a few seconds every time a tire is shot into the hot side of the kiln. A video of the pitching mechanism can be accessed at the following link:

[www.dep.state.fl.us/Air/permitting/construction/rinker/CEMEXTIMMovie.wmv](http://www.dep.state.fl.us/Air/permitting/construction/rinker/CEMEXTIMMovie.wmv)

There will not be any other changes to the existing system to accommodate the TIMS. The project involves no changes in the previously permitted emission, production and fuel use limitations compared with those in the existing permit that was subject to the preconstruction review requirements of Rule 62-212.400, F.A.C. (PSD permit).

The original PSD permit for Kiln 2 authorized introduction of tires into the feed end (cold side) of the kiln amounting to 30 percent (%) of the allowable heat input. With the TIMS, the

# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

authorized limit of 30% will still apply but there will be two injection points (feed end and product end) instead of one.

## **Processing Schedule**

- 07/29/2008 Received the application for a minor source air pollution construction permit.  
08/11/2008 Department received further description of the TIMS from CEMEX.  
08/27/2008 Department distributed draft Intent to Issue package.

## **2. APPLICABLE REGULATIONS**

### **State Regulations**

This project is subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The Florida Statutes authorize the Department of Environmental Protection to establish rules and regulations regarding air quality as part of the F.A.C. The original Kiln 2 project was subject to the applicable rules and regulations defined in the following Chapters of the F.A.C.

<u>Chapter</u>	<u>Description</u>
62-4	Permitting Requirements
62-204	Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference
62-210	Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms
62-212	Preconstruction Review, PSD Review and BACT, and Non-attainment Area Review and LAER
62-213	Title V Air Operation Permits for Major Sources of Air Pollution
62-296	Emission Limiting Standards
62-297	Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures

### **Federal Regulations**

The original project was also subject to the applicable federal provisions regarding air quality as established by the Environmental Protection Agency (EPA) in the following sections of the Code of Federal Regulations (CFR).

<u>Title 40, CFR</u>	<u>Description</u>
Part 60	Subpart A - General Provisions for NSPS Sources
	NSPS Subpart F - Standards of Performance for Portland Cement Plants.
	NSPS Subpart Y - Standards of Performance for Coal Preparation Plants.
	NSPS Subpart OOO - New Source Performance Standards For Nonmetallic Mineral Processing Plants.
	Applicable Appendices
Part 63	NESHAP Subpart A - National Emission Standards for Hazardous Air Pollutants – General Provisions.
	NESHAP Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

# **TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION**

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## **General PSD Applicability**

The Department regulates major air pollution sources in accordance with Florida's PSD program, as approved by the EPA in Florida's State Implementation Plan and defined in Rule 62-212.400, F.A.C. A PSD review is required in areas currently in attainment with the state and federal Ambient Air Quality Standards (AAQS) or areas designated as "unclassifiable" for a given pollutant. A new facility is considered "major" with respect to PSD if it emits or has the potential to emit:

- 250 tons per year or more of any regulated air pollutant, or
- 100 tons per year or more of any regulated air pollutant and the facility belongs to one of the 28 PSD Major Facility Categories (Table 62-212.400-1, F.A.C.), or
- 5 tons per year of lead.

For new projects at PSD-major sources, each regulated pollutant is reviewed for PSD applicability based on emissions thresholds known as the "Significant Emission Rates" listed in definitions at Rule 62-210.200, F.A.C. Pollutant emissions from the project exceeding these rates are considered "significant" and the applicant must employ the Best Available Control Technology (BACT) to minimize emissions of each such pollutant and evaluate the air quality impacts. Although a facility may be "major" with respect to PSD for only one regulated pollutant, it may be required to install BACT controls for several "significant" regulated pollutants.

## **PSD Applicability for the TIMS Project on Kiln 2**

A PSD permit was issued in 2005 for the original Kiln 2 construction project that is nearing completion. No changes in permitted emissions, production or fuel use limitations are requested.

The key definition of "major source modification" is given at Rule 62-210.200 (192), F.A.C. as follows:

- (a) Any physical change in or change in the method of operation of a major stationary source that would result in a significant emissions increase of a PSD pollutant and a significant net emissions increase of that pollutant from the major stationary source.*

For emissions units (such as Kiln 2) that have not begun normal operations, actual emissions are defined as follows per Rule 62-210.200 (11):

- (c) For any emissions unit that has not begun normal operations on a particular date, actual emissions shall equal the potential emissions of the emissions unit on that date.*

CEMEX believes that Kiln 2 will comply with the present emission limits with the TIMS project. Because actual emissions equal the potential emissions from Kiln 2 and also equal the permitted emissions from Kiln 2, there will not be a significant net emission increase of pollutants. Therefore PSD does not apply to the project.

Because the manner by which tires are to be introduced into Kiln 2 is specifically described in the existing PSD permit, it is necessary to revise that permit to accommodate the TIMS description.

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

### 3. EMISSIONS STANDARDS

#### Brief Discussion of Emissions

Emissions from Kiln 2 are from the handling, drying and grinding of raw materials, calcination using fossil fuels and tires, and sintering to make product clinker. The total annual air pollutant potential emissions in tons per year (TPY) from the previously authorized Kiln 2 are given in the following table. The same estimates will apply after inclusion of the TIMS.

<u>POLLUTANT</u>	<u>MAXIMUM EMISSIONS (TPY)</u>
Particulate Matter (PM/PM <sub>10</sub> )	256.4
Sulfur Dioxide (SO <sub>2</sub> )	122.7
Nitrogen Oxides (NO <sub>x</sub> )	1126.2
Carbon Monoxide CO	2133.6
VOC (Ozone)	105.3
Sulfuric Acid Mist (H <sub>2</sub> SO <sub>4</sub> )	5.1
Mercury (Hg)	0.061 (122 lbs)
Lead (Pb)	0.375 (750 lbs)

The permitted emission limitations according to the original Permit No. 0530021-009-AC (PSD-FL-351) are given in the following table in terms of pounds per unit of process or product (lb/ton) and as mass emissions per hour (lb/hr). The same limitations will apply after inclusion of the TIMS.

<u>POLLUTANT</u>	<u>EMISSION LIMIT</u>		<u>AVERAGING TIME</u>	<u>BASIS</u>
PM	0.136 lb/ton of dry preheater feed; 0.23 lb/ton of clinker	28.8 lb/hr	3 hours <sup>3</sup>	BACT
PM <sub>10</sub>	0.118 lb/ton of dry preheater feed; 0.20 lb/ton of clinker	25.0 lb/hr	3 hours <sup>3</sup>	BACT
SO <sub>2</sub>	0.23 lb/ton of clinker	28.8 lb/hour	24 hours <sup>4</sup>	BACT
NO <sub>x</sub>	1.95 lb/ton of clinker <sup>1</sup>	243.75 lb/hour <sup>1</sup>	30 day	BACT
CO	3.6 lb/ton of clinker	450.0 lb/hour	24 hours <sup>5</sup>	BACT
VOC	0.12 lb/ton of clinker <sup>2</sup>	15.0 lb/hour <sup>2</sup>	30 days <sup>6</sup>	BACT
VE	10% opacity		6 minutes <sup>7</sup>	BACT
Mercury		122 lb/yr		

- NO<sub>x</sub> emissions shall not exceed 2.4 lb/ton of clinker and 306.25 lb/hour (30 day rolling average) during the first 180 operating day after initial startup. After 180 operating days after initial plant startup, emissions of NO<sub>x</sub> shall not exceed the limits shown in the table.
- VOC emissions shall be expressed as propane.
- The averaging times for PM and PM<sub>10</sub> correspond to the required length of sampling for the initial and subsequent emission tests.
- The averaging time for SO<sub>2</sub> shall be a rolling average that shall be recomputed every hour from the individual hourly averages for the current hour and the preceding 23 hours.

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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- 5 The CO emissions limit will have a 30-day averaging period for the first 180 days after initial startup; thereafter, the CO limits will be a 24-hour limit. The averaging time for CO shall be a rolling average that shall be recomputed every hour from the individual hourly averages for the current hour and the preceding 23 hours.
- 6 The averaging time for VOC shall be a 30-day block average specified in 40 CFR 63.1350(h).
- 7 The averaging time for visible emissions shall be a 6-minute block average that shall be computed from a minimum of one measurement every 15 seconds. The 6 minute block averages shall start at the beginning of each hour.

### Draft Permit Requirements

The only permit requirement for the TIMS involves language changes regarding the manner by which tires are introduced into Kiln 2. The following language was suggested by CEMEX to modify Specific Condition A.1.2.a. of Permit 0530021-009-AC (PSD-FL-351). The changes are shown in double-underline form.

#### Specific Condition A.1.2.a.

Fuels: Fuels fired in the pyroprocessing system (kiln and calciner) shall not exceed a total maximum heat input of 390 million Btu per hour (MMBtu/hr) and shall consist only of natural gas, coal, distillate oil, petroleum coke, flyash, on-spec oil, and whole tires. Propane may be fired and shall not exceed a maximum hourly rate of 4150 gallons/hr.

- a. Whole tires may be fired directly in the pyroprocessing system at a rate not to exceed a maximum heat input of 30% of the total pyroprocessing heat input, not to exceed 58.5 MMBtu/hr at any time. The remaining 70% of the total pyroprocessing heat input shall be derived from firing coal, flyash, petroleum coke, natural gas, propane or distillate oil. Whole tires fired in this manner shall be fed into the kiln system near the product end (hot side) of the kiln or at the transition section between the base of the precalciner and the point where gases exit the kiln. The tire feeder mechanism at the feed end (cold side) of the kiln shall be designed with a double airlock.
- b. Coal and/or petroleum coke shall not exceed 15.0 tons per hour. Natural gas shall not exceed 432 MMCF/hr. Distillate oil shall not exceed 3080 gallons/hr.

In addition to the change above the company requested extension of the expiration date to complete construction of Kiln 2, conduct compliance testing and prepare a Title V operation permit application. The expiration date will be extended until June 30, 2009.

### Test Methods and Monitoring

The test methods, monitoring and recordkeeping described in 0530021-009-AC (PSD-FL-351) remain applicable and are adequate for the purposes of the TIMS project.

## 4. PRELIMINARY DETERMINATION

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. No air quality modeling analysis is required because the project does not result in a significant increase in emissions. Teresa Heron is the project engineer responsible for reviewing the application and drafting the permit. Additional details of this analysis may be obtained by contacting the project engineer at the Department's Bureau of Air Regulation at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

**Livingston, Sylvia**

---

**From:** Livingston, Sylvia  
**Sent:** Friday, August 15, 2008 3:06 PM  
**To:** 'jdaniel@cemexusa.com'; 'maller@cemexusa.com'; 'gtownsend@cemexusa.com'; 'lillianf.deprimo@cemex.com'  
**Cc:** Nasca, Mara; 'fbergen@kooglerassociates.com'; 'gkuhl@hernandocounty.us'; 'forney.kathleen@epamail.epa.gov'; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** CEMEX Brooksville Cement Plant; 0530021-015-AC

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This is the official notification of the **Draft Permit** and its associated documents for the following project:

**Owner/Company Name:** FLORIDA CRUSHED STONE CO., INC.  
**Facility Name:** BROOKSVILLE CEMENT AND POWER PLANTS  
**Project Number:** 0530021-015-AC  
**Permit Status:** DRAFT  
**Permit Activity:** CONSTRUCTION/ MODIFICATION- INSTALL T.I.M. AT UNIT 2  
**Facility County:** HERNANDO

**Processor:** Teresa Heron

Click on the following link to access the permit project documents:

[http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\\_permit\\_zip\\_files/0530021.015.AC.D\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0530021.015.AC.D_pdf.zip)

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Sylvia Livingston  
Bureau of Air Regulation  
Division of Air Resource Management (DARM)  
850/921-9506



## Livingston, Sylvia

---

**From:** Townsend, George [gtownsend@cemexusa.com]  
**Sent:** Friday, August 15, 2008 3:32 PM  
**To:** Livingston, Sylvia  
**Subject:** RE: CEMEX Brooksville Cement Plant; 0530021-015-AC

Verification of documents received

-----Original Message-----

From: Livingston, Sylvia [mailto:Sylvia.Livingston@dep.state.fl.us]  
Sent: Friday, August 15, 2008 3:06 PM  
To: Daniel, James S.; Aller, Mike; Townsend, George; Lillian F Deprimo  
Cc: Nasca, Mara; fbergen@kooglerassociates.com; gkuhl@hernandocounty.us;  
forney.kathleen@epamail.epa.gov; Walker, Elizabeth (AIR); Gibson, Victoria  
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Sylvia Livingston  
Bureau of Air Regulation  
Division of Air Resource Management (DARM)  
850/921-9506

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<http://survey.dep.state.fl.us/?refemail=Sylvia.Livingston@dep.state.fl.us>

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## Livingston, Sylvia

---

**From:** Townsend, George [gtownsend@cemexusa.com]  
**Sent:** Friday, August 15, 2008 4:28 PM  
**To:** Livingston, Sylvia; Daniel, James S.; Aller, Mike; Lillian F Deprimo  
**Cc:** Nasca, Mara; fbergen@kooglerassociates.com; gkuhl@hernandocounty.us; forney.kathleen@epamail.epa.gov; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** RE: CEMEX Brooksville Cement Plant; 0530021-015-AC

In the draft permit it states that the total pyroprocessing heat input shall not exceed 58.5 MMBtu/hr and coal and/or petroleum coke shall not exceed 15.0 tons per hour. A previous Administrative Correction to the construction permit changed these values to 117 MMBtu/hr and 20 tons per hour; which should be reflected in the final permit modification.

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**From:** Livingston, Sylvia [mailto:Sylvia.Livingston@dep.state.fl.us]  
**Sent:** Friday, August 15, 2008 3:06 PM  
**To:** Daniel, James S.; Aller, Mike; Townsend, George; Lillian F Deprimo  
**Cc:** Nasca, Mara; fbergen@kooglerassociates.com; gkuhl@hernandocounty.us; forney.kathleen@epamail.epa.gov; Walker, Elizabeth (AIR); Gibson, Victoria  
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Sylvia Livingston

Bureau of Air Regulation  
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## Livingston, Sylvania

---

**From:** Linero, Alvaro  
**Sent:** Monday, August 18, 2008 8:26 AM  
**To:** Walker, Elizabeth (AIR); Heron, Teresa  
**Cc:** Livingston, Sylvania  
**Subject:** RE: CEMEX Brooksville Cement Plant; 0530021-015-AC

Got it!

Al.

-----Original Message-----

**From:** Walker, Elizabeth (AIR)  
**Sent:** Monday, August 18, 2008 8:18 AM  
**To:** Linero, Alvaro; Heron, Teresa  
**Cc:** Livingston, Sylvania  
**Subject:** FW: CEMEX Brooksville Cement Plant; 0530021-015-AC

I don't know if you were copied on notification, but Mr. Townsend had a comment.

Thanks!

Elizabeth Walker  
Bureau of Air Regulation  
Division of Air Resource Management (DARM)  
(850)921-9505

-----Original Message-----

**From:** Townsend, George [mailto:gtownsend@cemexusa.com]  
**Sent:** Friday, August 15, 2008 4:28 PM  
**To:** Livingston, Sylvania; Daniel, James S.; Aller, Mike; Lillian F Deprimo  
**Cc:** Nasca, Mara; fbergen@kooglerassociates.com; gkuhl@hernandocounty.us; forney.kathleen@epamail.epa.gov; Walker, Elizabeth (AIR); Gibson, Victoria  
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**To:** Daniel, James S.; Aller, Mike; Townsend, George; Lillian F Deprimo  
**Cc:** Nasca, Mara; fbergen@kooglerassociates.com; gkuhl@hernandocounty.us; forney.kathleen@epamail.epa.gov; Walker, Elizabeth (AIR); Gibson, Victoria  
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Sylvia Livingston  
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## Livingston, Sylvia

---

**From:** Lillian F Deprimo [lillianf.deprimo@cemex.com]  
**Sent:** Monday, August 18, 2008 4:32 PM  
**To:** Livingston, Sylvia  
**Subject:** CEMEX Brooksville Cement Plant; 0530021-015-AC

### Return Receipt

Your CEMEX Brooksville Cement Plant; 0530021-015-AC  
document:

was lillianf.deprimo@cemex.com  
received  
by:

at: 08/18/2008 16:36:18 EDT