
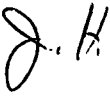



Florida Department of  
Environmental Protection

Memorandum

To: Jeff Koerner   
Through: Jonathan Holtom   
From: Teresa Heron   
Date: June 27, 2011  
Subject: Air Permit No. 0530021-033-AC (PSD-FL-351D)  
CEMEX Brooksville South Cement Plant – Line 2  
Production Rate Increase

Attached is the Final Determination and the Final Air Construction Permit for the CEMEX Brooksville South Cement Plant, which is located in Brooksville, Hernando County. This permit reflects the production rate increase of the Line 2 air construction permit.

This project is subject to minor source preconstruction review. The original project to construct the new Cement Line 2 triggered the PSD requirements and the project went through a PSD preconstruction review. The requested production increase to recognize the full installed capacity of the kiln and the minor equipment reconfiguration of the raw mill do not result in any significant emissions increases. Line 2 began operation on November 28, 2008 and initial and annual performance testing has been conducted.

The present request is to increase the permitted capacity of Line 2 from 2,800 tons per day (TPD) to 3,500 TPD; an increase of 25 percent (%). Although presently restricted by the permit to 2,800 TPD, the plant was constructed with a daily nominal capacity of 3,000 TPD based on an hourly permitted capacity of 125 tons per hour (TPH). Therefore the requested final daily production limit represents only a 16.7% increase beyond the “nominal capacity” of the kiln.

CEMEX’s consultant commented during the public notice period regarding the 24-hr average time for NO<sub>x</sub> emissions during the initial production increase period. The comment and our response are addressed in the Final Determination.

We recommend your approval of the Final Permit.

Attachments

JFK/jkh/tmh

## FINAL DETERMINATION

CEMEX Construction Materials Florida, LLC  
Air Permit No. 0530021-033-AC (PSD-FL-351D)  
Brooksville South Cement Plant – Line 2  
Production Increase  
Hernando County

### PERMITTEE

CEMEX Construction Materials Florida, LLC (CEMEX)  
10311 Cement Plant Road  
Brooksville, Florida 32669

### PERMITTING AUTHORITY

Florida Department of Environmental Protection (Department)  
Division of Air Resource Management  
Permitting and Compliance Section  
2600 Blair Stone Road, MS #5505  
Tallahassee, Florida 32399-2400

### PROJECT

Permit No. 0530021-033-AC (PSD-FL-351D)  
CEMEX Brooksville South Cement Plant  
Cement Line 2 Production Increase

This project is to increase the production capacity of Cement Line 2. Because the applicant proposed corresponding decreases to the emissions limitations to offset the requested production increase, this project will result in an overall decrease in allowable emissions in terms of lb/ton of clinker. The pound per hour (lb/hr) limits will remain unchanged and the tons per year (ton/yr) emissions are slightly reduced due to some units not operating continuously (7,500 hours per year rather than 8,760 hours per year). As a result, this project is not subject to a PSD review, even though the previously established BACT limitations will be altered.

The following reductions in emissions limits are proposed for the kiln stack (no change in the permitted average time):

NO<sub>x</sub> emissions limit from 1.95 to 1.56 lbs of NO<sub>x</sub> per ton of clinker (~~243.8~~ 227 lb/hour),  
SO<sub>2</sub> emissions limit from 0.23 to 0.185 pounds of SO<sub>2</sub> per ton of clinker (28.8 lb/hr),  
PM emissions limit from 0.23 to 0.185 pounds of PM per ton of clinker (28.8 lb/hr),  
PM<sub>10</sub> emissions limit from 0.20 to 0.160 pounds of PM<sub>10</sub> per ton of clinker (25.0 lb/hr),  
CO emissions limit from 3.60 to 2.88 pounds of CO per ton of clinker (450 lb/hr), and  
VOC emissions limit from 0.12 to 0.096 pounds of VOC per ton of clinker (15 lb/hr),

The following process rate increases are proposed (no change in the permitted average times):

Daily raw material and handling storage: from 225 to 246 tons /hr,  
Annual raw material/ handling storage: from 1,971,000 to 2,154,960 tons/yr,  
Hourly dry fly ash and preheater feed: from 206.3 to 258 tons/hr,  
Daily dry fly ash and preheater feed: from 4,620 to 5,775 tons/day,  
Annual dry fly ash and preheater feed: from 1,686,300 to 2,107,875 tons/yr,  
Line 2 annual coal crushing limit: from 165,000 tons/yr to 175,200 tons/yr (error correction, no change),  
Total heat input: from 390 to 490 million Btu/hr,  
Propane: from 4,150 to 5,200 gallons per hour,  
Whole tires heat input: from 117 to 147 million Btu/hr,  
Natural gas: from 432,000 to 466,000 cubic feet per hour,

Distillate oil: from 3,080 to 3,600 gallons per hour,  
Hourly clinker production: from 125 to 156 tons/hour,  
Daily clinker production: from 2,800 to 3,500 tons/day,  
Annual clinker production: from 1,022,000 to 1,277,500 tons/yr,  
Hourly cement production: from 138 to 240 tons/hour (error correction, no change),  
Daily cement production: from 5,760 to 5,760 tons/day (no change), and  
Annual cement production: from 1,301,138 to 1,800,000 tons/yr.

#### **NOTICES AND PUBLICATION**

On May 25, 2011, the Permitting Authority gave notice of its intent to issue an air permit to the applicant for the project described above. The applicant published notice of the Public Notice of Intent to Issue Air Permit for this project on May 26, 2011, in the legal section of The St Petersburg Times (Hernando and Citrus County edition).

#### **COMMENTS ON THE DRAFT PERMIT**

No comments were received from agencies or the public. However, on June 1, 2011, the Department received the following comment by e-mail from Koogler and Associates (KA) on behalf of CEMEX:

NO<sub>x</sub> Averaging Time: KA questions the 24-hr average time for NO<sub>x</sub> emissions during the initial production increase period and it believes this was a scribe's error. KA proposes to change the average time from 24-hours to 30-days since this was already part of the original permit and is traditionally used for cement plants as per the recently revised NSPS Subpart F that has a 30-day rolling average.

Response: In reviewing this comment, the Department discovered what it believes to be a long-standing oversight in the permit that led to the confusion which resulted in the language in question. A deeper review of the past permitting actions related to Line 2 clearly show that the 243.75 lb/hr NO<sub>x</sub> limit in the permit was based on the PSD-established lb/ton of clinker limit and the original 1-hour maximum clinker production rate of 125 tons per hour. The industry standard for the NO<sub>x</sub> limit is in terms of pounds per ton of clinker on a 30-day rolling average. The pound per hour mass limit that was established in the PSD permit equivalent to 1.95 lb/ton of clinker on a 30-day average should have been 227 lbs/hr and the 243.75 lb/hr limit contained in the permit is more representative of a 1-hour average, not a 30-day average. However, it was not the Department's original intent to establish a 1-hour NO<sub>x</sub> limit. The intent of the footnote contained in the draft permit for this project was to provide CEMEX flexibility in learning to balance NO<sub>x</sub> emissions with ammonia injection as the production rate is gradually increased. The agreement was to not subject CEMEX to the pound per ton of clinker limit during this ramping-up period, but to still maintain compliance with the existing average mass emissions limit of 227 pounds per hour to avoid a perceived PSD increase. To clarify and correct the NO<sub>x</sub> emissions limits, while still providing some flexibility to properly tune the control devices, Specific Condition III.A.11. is clarified as follows:

11. Emissions Limits: Emissions Unit 044 shall have one emission point, the stack of the Kiln #2, Pre-Heater, Pre-Calcliner and Clinker Cooler designated by the permittee as 331.BF300. Particulate matter emissions from this emissions unit shall be controlled by a baghouse.

Emissions from this unit shall not exceed the following limits ~~for the following pollutants~~ upon the issuance date of this permit.

POLLUTANT	EMISSION LIMIT		AVERAGING TIME	BASIS
PM	0.112 lb/ton of dry preheater feed; 0.185 lb/ton of clinker	28.8 lb/hr	3 hours <sup>3</sup>	BACT
PM <sub>10</sub>	0.097 lb/ton of dry preheater feed; 0.160 lb/ton of clinker	25.0 lb/hr	3 hours <sup>3</sup>	BACT
SO <sub>2</sub>	0.185 lb/ton of clinker	28.8 lb/hour	24 hours <sup>4</sup>	BACT
NO <sub>x</sub>	1.56 lb/ton of clinker <sup>1</sup>	<del>243.75</del> 227 lb/hour <sup>1</sup>	30-day rolling	BACT
CO	2.88 lb/ton of clinker	450.0 lb/hour	24 hours <sup>5</sup>	BACT
VOC	0.096 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	41 µg/dscm <sup>8</sup>			Subpart LLL
		122 lb/yr	Annual	Avoid PSD

1. NO<sub>x</sub> emissions shall not exceed 227 lbs/hr (~~24 hr~~ 30-day rolling average) until a production rate of 3,500 tons per day of clinker is reached. Emissions of NO<sub>x</sub> shall not exceed neither the pound per ton of clinker nor the pound per hour limits shown in the table once a clinker production rate of 3,500 tons per day is reached or June 30, 2012, whichever comes first.

No change in the rest of the condition. A permitting note is added following this condition to clarify the 30-day rolling NO<sub>x</sub> average.

[Permitting Note: The "30-day rolling average NO<sub>x</sub> emission rate" is the arithmetic average of all hourly NO<sub>x</sub> emission data measured by the continuous emission monitoring equipment (converted to lb/ton of clinker and lb/hr) for a given operating day and the twenty-nine unit operating days immediately preceding that unit operating day.]

Pursuant to 40 CFR 60, Subpart F, an operating day includes all valid data obtained in any daily 24-hour period during which the kiln operates and excludes any measurements made during the daily 24-hour period when the kiln was not operating.

A new 30-day average is calculated each unit operating day as the average of all hourly NO<sub>x</sub> emissions rates for the preceding 30 unit operating days if a valid NO<sub>x</sub> emission rate is obtained for at least 75 percent of all operating hours. Zero emissions from non-unit operating days shall not be included in the averaging period in order to show compliance with the emissions limits.]

## CONCLUSION

The final action of the Department is to issue the permit with the changes noted above.



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

## PERMITTEE

CEMEX Construction Materials Florida, LLC  
Brooksville South Cement Plant  
10311 Cement Plant Road  
Brooksville, Florida 32669

<b>Permit No</b>	0530021-033-AC (PSD-FL-351D) Cement Line No. 2
<b>Project</b>	Production Rate Increase
<b>SIC No.</b>	3241
<b>Expires:</b>	December 31, 2012

## AUTHORIZED REPRESENTATIVE:

James Daniel, Plant Manager

## PROJECT AND LOCATION

This is the final air construction permit authorizing the production increase of Cement Line 2. Line 2 is a recently constructed dry process preheater/precalciner kiln system with a cooler and associated material, fuel and product handling equipment. This project modifies and reissues the previous permit No. 0530021-018-AC (PSD-FL-351C), which it was based on the original permit No. 0530021-009-AC (PSD-FL-351) that authorized the construction of Line 2, to authorize an increase in the allowable production rates. In order to consistently operate at the increased production rates allowed by this permit revision at all raw material moisture content percentages, this permit also authorizes a minor equipment reconfiguration in the design of the raw mill material input feeder. The facility is located at 10311 Cement Plant Road, Hernando County. The UTM coordinates are: Zone 17; 360.0 km East and 3162.5 km North.

## STATEMENT OF BASIS

This construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and the Florida Administrative Code (F.A.C.) Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297. The above named permittee is authorized to perform the minor raw mill material input feeder design changes discussed in the application and to operate the emissions units in accordance with the revised conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) 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 must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida  
For the Division of Air Resource Management

Jeffery F. Koerner  
(Signature)

6-28-11  
(Date)

JEFFERY F. KOERNER  
(Printed Name of Above Designee)

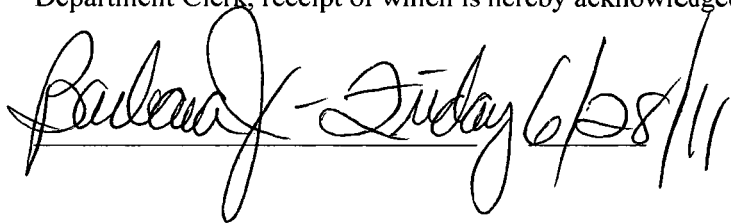
**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit with Appendices) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on 6/28/11 to the persons listed below.

- James S. Daniel, CEMEX: [jdaniel@cemexusa.com](mailto:jdaniel@cemexusa.com)
- George Townsend, CEMEX: [gtownsend@cemexusa.com](mailto:gtownsend@cemexusa.com)
- Lillian DePrimo, CEMEX: [lillianf.deprimo@cemex.com](mailto:lillianf.deprimo@cemex.com)
- John Koogler, P.E., Koogler & Associates: [jkoogler@kooglerassociates.com](mailto:jkoogler@kooglerassociates.com)
- Max Lee, P.E., Koogler & Associates: [mlee@kooglerassociates.com](mailto:mlee@kooglerassociates.com)
- Cindy Zhang-Torres, DEP SWD: [cindy.zhang-torres@dep.state.fl.us](mailto:cindy.zhang-torres@dep.state.fl.us)
- David Hamilton, County Administrator, Hernando County: [CountyAdministrator@hernandocounty.us](mailto:CountyAdministrator@hernandocounty.us)
- Heather Abrams, EPA Region 4: [abrams.heather@epa.gov](mailto:abrams.heather@epa.gov)
- Ana Oquendo, EPA Region 4: [oquendo.ana@epamail.epa.gov](mailto:oquendo.ana@epamail.epa.gov)
- Katy Forney, EPA Region 4: [forney.kathleen@epamail.epa.gov](mailto:forney.kathleen@epamail.epa.gov)
- Victoria Gibson, DEP BAR: [victoria.gibson@dep.state.fl.us](mailto:victoria.gibson@dep.state.fl.us) (for reading file)

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.



## SECTION I. FACILITY INFORMATION

### FACILITY DESCRIPTION

The existing facility is an integrated facility that includes two Portland cement manufacturing lines, a 150 MW power plant, a coal yard and all required auxiliary equipment.

The CEMEX plant ownership comprises both Portland cement manufacturing lines; associated raw and product material handling activities; some coal handling activities and auxiliary equipment; as well as, all of the land designated as the Brooksville South facility.

The CP&L power plant ownership comprises the 150 MW coal power boiler; all limestone handling activities; as well as, some coal handling activities and auxiliary equipment. CP&L operates the power plant at the Brooksville South site under a lease agreement with CEMEX, which grants them access to the property and use of a shared baghouse and stack with CEMEX's Portland Cement Line 1.

### PROJECT DESCRIPTION

This project is to increase the production capacity of Cement Line 2. Because the applicant proposed corresponding decreases to the emissions limitations to offset the requested production increase, this project will result in an overall decrease in allowable emissions in terms of lb/ton of clinker. The pound per hour (lb/hr) limits will remain unchanged and the tons per year (ton/yr) emissions are slightly reduced due to some units not operating continuously (7,500 hrs/year rather than 8,760 hrs/year). As a result, this project is not subject to a PSD review, even though the previously established BACT limitations will be altered.

The following reductions in emissions limits are proposed for the kiln stack (no change in the permitted average time):

NO<sub>x</sub> emissions limit from 1.95 to 1.56 lbs of NO<sub>x</sub> per ton of clinker (227 lb/hour),  
SO<sub>2</sub> emissions limit from 0.23 to 0.185 pounds of SO<sub>2</sub> per ton of clinker (28.8 lb/hr),  
PM emissions limit from 0.23 to 0.185 pounds of PM per ton of clinker (28.8 lb/hr),  
PM<sub>10</sub> emissions limit from 0.20 to 0.160 pounds of PM<sub>10</sub> per ton of clinker (25.0 lb/hr),  
CO emissions limit from 3.60 to 2.88 pounds of CO per ton of clinker (450 lb/hr), and  
VOC emissions limit from 0.12 to 0.096 pounds of VOC per ton of clinker (15 lb/hr),

The following process rate increases are proposed (no change in the permitted average times):

Daily raw material and handling storage: from 225 to 246 tons /hr,  
Annual raw material/ handling storage: from 1,971,000 to 2,154,960 tons/yr,  
Hourly dry fly ash and preheater feed: from 206.3 to 258 tons/hr,  
Daily dry fly ash and preheater feed: from 4,620 to 5,775 tons/day,  
Annual dry fly ash and preheater feed: from 1,686,300 to 2,107,875 tons/yr,  
Line 2 annual coal crushing limit: from 165,000 tons/yr to 175,200 tons/yr (error correction, no change),  
Total heat input: from 390 to 490 million Btu/hr,  
Propane: from 4,150 to 5,200 gallons per hour,  
Whole tires heat input: from 117 to 147 million Btu/hr,  
Natural gas: from 432,000 to 466,000 cubic feet per hour,  
Distillate oil: from 3,080 to 3,600 gallons per hour,  
Hourly clinker production: from 125 to 156 tons/hour,  
Daily clinker production: from 2,800 to 3,500 tons/day,  
Annual clinker production: from 1,022,000 to 1,277,500 tons/yr,  
Hourly cement production: from 138 to 240 tons/hour (error correction, no change),  
Daily cement production: from 5,760 to 5,760 tons/day (no change), and  
Annual cement production: from 1,301,138 to 1,800,000 tons/yr.

Permit No. No.0530021-009-AC (PSD-FL-351) was issued to Portland Cement Line 2 in 2006. In 2010, this permit was modified to reflect the F.L. Smidth "as built" configuration by permit No. 0530021-018-AC (PSD-FL-351C): Line 2 includes a raw mill system, a dry process preheater/precalciner kiln system, clinker handling system, finish grinding operations, two cement loadout silos, and coal handling and grinding operations. Nitrogen oxide (NO<sub>x</sub>) emissions are controlled by the use of Selective Non-catalytic Reduction (SNCR) technology. SO<sub>2</sub>

**SECTION I. FACILITY INFORMATION**

emissions are controlled by use of low sulfur raw materials and inherent scrubbing by finely divided lime in the calciner and limestone in the raw mill. Carbon monoxide (CO) and volatile organic carbon (VOC) emissions are controlled by promoting complete combustion in the kiln and calciner and minimizing carbon and oily content of raw materials. Particulate matter and particulate matter less than 10 microns (PM/PM<sub>10</sub>) from the pyroprocessing system and the clinker cooler are controlled by large fabric filter baghouses. Mercury (Hg) emissions are controlled by material balance with a minimum of quarterly analysis of raw material samples and making and maintaining records of monthly and rolling 12-month mercury throughput. All of the materials handling activities particulate matter emissions are controlled by fabric filters. Water sprays or chemical wetting agents and stabilizers are used at the coal receiving area, the coal storage area, and the coal transfer system to control fugitive particulate matter emissions and minimize visible emissions. Continuous monitors are operated for opacity, NO<sub>x</sub>, SO<sub>2</sub> and O<sub>2</sub>. Fuels allowed to be used in the pyroprocessing system are natural gas, distillate fuel oil, on specification used oil, coal, petroleum coke, propane, flyash, and tire derived fuels.

**PROJECT DETAILS**

This permitting action is to modify and reissue permit No. 0530021-018-AC (PSD-FL-351C) which was based on original permit No. 0530021-009-AC (PSD-FL-351). The Department is also incorporating directly into the permit the applicable updated 40 CFR 63, Subpart LLL in an attached Appendix.

Emissions units addressed by this permit are:

EMISSIONS UNIT NO.	BAGHOUSE ID NO.	EMISSIONS UNIT DESCRIPTION
<b>Process: Pyroprocessing System</b>		
044	331.BF300	In-line Raw Mill, Kiln #2, Pre-Heater, Pre-Calciner, Clinker Cooler
<b>Process: Raw Mill and Raw Meal Handling and Storage System</b>		
045	331.BF640	Filter Dust Bin
	311.LS609	Filter Dust Bin Loadout Spout
046	341.BF400	Blend Silo
047	351.BF420	Kiln Feed Transport
	341.BF410	Blend Silo Discharge
	351.BF410	Kiln Feed Bin
<b>Process: Clinker Handling and Storage</b>		
048	471.BF110	Clinker Transport
050	471.BF120	Clinker Storage Silo
	481.BF155	Clinker Silo Discharge 1
	481.BF165	Clinker Silo Discharge 2
<b>Process: Finish Mill System</b>		
051	511.BF650	Finish Mill Additives
052	531.BF500	Finish Mill and Air Heater
054	531.BF020	Finish Mill Bucket Elevator
057	531.BF400	Finish Mill Cement Transport
	531.BF290	Finish Mill Rejects Transport
<b>Process: Cement Silos &amp; Loadout</b>		
058	612.BF005	Cement Silo 5
	612.BF620	Cement Silo 5 Loading Bin
	622.LS140	Cement Silo 5 Loadout Spout N
	622.LS160	Cement Silo 5 Loadout Spout S
059	611.BF005	Multi Cell Cement Silo
	611.BF045	Multi Cell Cement Silo Alleviator
	611.BF610	Multi Cell Loadout Transport
	611.LS760	Multi Cell Loadout Spout
060	461.BF400	Coal Mill
061	461.BF560	Fine Coal Bin
062	641.BF150	Packing Plant



## SECTION I. FACILITY INFORMATION

The total annual air pollutant potential emissions in tons per year from Line 2 after the production increase are:

POLLUTANT	PSD SIGNIFICANT EMISSION RATES	MAXIMUM EMISSIONS (TONS/YEAR)	THIS PROJECT SUBJECT TO PSD REVIEW? <sup>1</sup>
PM/PM <sub>10</sub>	25/15	192.7/154.8	No
SO <sub>2</sub>	40	120.2	No
NO <sub>x</sub>	40	1,003.5	No
CO	100	1,841.9	No
VOC (Ozone)	40	61.7	No
Mercury	200 pounds per year	122 pounds per year	No

1. The original project was subject to PSD review, but the production increase is not.

### REGULATORY CLASSIFICATION

This facility is classified as a Major or Title V Source of air pollution because emissions of at least one regulated air pollutant, such as particulate matter (PM/PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), or volatile organic compounds (VOC) exceeds 100 tons per year (TPY).

This facility is within an industry included in the list of the 28 Major Facility Categories per Rule 62-210.200 (Definitions), F.A.C. Because emissions are greater than 100 TPY for at least one criteria pollutant, the facility is also a Major Facility with respect to Rule 62-212.400, Prevention of Significant Deterioration (PSD).

The project was subjected to the provisions of Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD), because it is a modification to an existing facility.

The Department has determined this facility is a major source of hazardous air pollutants (HAPs) and is subject to 40 CFR 63, Subpart LLL, National Emissions Standard for Portland Cement Manufacturing (Subpart LLL).

The emissions units included in this project are subject to regulation under the New Source Performance Standards, 40 CFR 60 Subpart A, General Provisions, Subpart F, Standards of Performance for Portland Cement Plants, and Subpart Y Standards of Performance for Coal Preparation Plants. Some of these emissions units are also subject to 40 CFR 63 Subpart LLL, National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry (40 CFR 63.1340 – 63.1359) and 40 CFR 63 Subpart A.

These emissions units are also subject to the requirements of the state rules as indicated in this permit, particularly Rule 62-212.400, F.A.C., Prevention of Significant Deterioration. Some emissions units are subject to Rule 62-296.407, F.A.C., Portland cement plants. Additionally the permit references the test methods of 40 CFR 60, Appendix A, Test Methods; 40 CFR 63, Appendix A, Test Methods; 40 CFR 51, Appendix M, Recommended Test Methods for State Implementation Plans; 40 CFR 61, Appendix B, Test Methods.

### RELEVANT DOCUMENTS

The documents listed below are the basis of the permit. They are specifically related to this permitting action. These and previous documents related to this permit are on file with the Department and can be accessible at the following link:

<http://appprod.dep.state.fl.us/air/emission/apds/listpermits.asp>.

- Permit 0530021-009-AC (PSD –FL-351) issued on July 6, 2005.
- Permit Modification 0530021-012-AC (PSD –FL-351A) issued on August 2, 2005.
- Permit Modification 0530021-015-AC (PSD –FL-351B) issued on September 9, 2008.
- Permit Modification 0530021-018-AC (PSD –FL-351C) issued on February 18, 2010.
- Permit Modification Application 0530021-033-AC (PSD-FL-315D) received on April 15, 2011.
- Draft Permit Modification package 0530021-033-AC (PSD-FL-315D) distributed on May 25, 2011.

## SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

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The following specific conditions apply to all emissions units at this facility addressed by this permit.

1. Permitting Authority:

The permitting authority is the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection (FDEP), at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and phone number (850) 717-9000.

2. Compliance Authority: All documents related to operation, reports, tests, and notifications should be submitted to the Department of Environmental Protection's Southwest District Office at:

Department of Environmental Protection  
Southwest District Office  
13051 N Telecom Parkway  
Temple Terrace, FL 33637-0926  
Telephone: 813/632-7600 Fax 813/632-7665

3. General Conditions: The owner and operator are subject to and shall operate under the attached General Permit Conditions G.1 through G.15 listed in Appendix GC of this permit. General Permit Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes. [Rule 62-4.160, F.A.C.]
4. Terminology: The terms used in this permit have specific meanings as defined in the corresponding chapters of the Florida Administrative Code.
5. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of Chapter 403, F.S. and Florida Administrative Code Chapters 62-4, 62-110, 62-204, 62-212, 62-213, 62-296, 62-297 and the Code of Federal Regulations Title 40, Part 60 and Part 63, adopted by reference in the Florida Administrative Code (F.A.C.) regulations. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
6. New or Additional Conditions: Pursuant to Rule 62-4.080, F.A.C., for good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
7. Expiration: This air construction permit shall expire on December 31, 2012. The permittee, for good cause, may request that this construction and PSD 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. [Rules 62-210.300(1), 62-4.070(4), 62-4.080, and 62-4.210, F.A.C.]

PSD Expiration: Approval to construct shall become invalid if construction is not commenced within 18 months after receipt of such approval, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified. [40 CFR 52.21(r)(2)]

BACT Determination: In conjunction with extension of the 18 month periods to commence or continue construction, or extension of the permit expiration date, the permittee may be required to demonstrate the adequacy of any previous determination of Best Available Control Technology (BACT) for the source. [40 CFR 52.21(j)(4)]

## SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

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8. Modifications: The permittee shall submit an application to the Department when there is any modification to this facility that would require a permit under State or Federal regulations. This application shall be submitted sufficiently in advance of any critical date involved to allow sufficient time for review, discussion, and revision of plans, if necessary. Such application shall include, but not be limited to, information describing the precise nature of the change; modifications to any emission control system; production capacity of the facility before and after the change; and the anticipated completion date of the change. [Chapters 62-210 and 62-212, F.A.C.]
9. Final Construction Schedule: The permittee shall provide to the Department a final construction schedule after selection of the contractor and before commencement of construction. [Rule 62-212.400(5)(h)2., F.A.C.]
10. General Visible Emissions Standard: Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer, or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than 20% opacity. The test method for visible emissions shall be EPA Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C. Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C. [Rule 62-296.320(4)(b)1, F.A.C.]
11. Unconfined Emissions of Particulate Matter:
- No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.
  - Reasonable precautions include the following:
    - Paving and maintenance of roads, parking areas and yards.
    - Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
    - Application of asphalt, water, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
    - Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
    - Landscaping or planting of vegetation.
    - Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
    - Confining abrasive blasting where possible.
    - Enclosure or covering of conveyor systems.

Additional reasonable precautions applicable to this facility are:

- All materials, except tires, coal and petroleum coke, at the plant shall be stored under roof on compacted clay or concrete, or in enclosed vessels.
- Water supply lines, hoses and sprinklers shall be located near all materials, coal and petroleum coke stockpiles.
- All plant operators shall be trained in basic environmental compliance and shall perform visual inspections of materials, coal and petroleum coke regularly and before handling. If the visual inspections indicate a lack of surface moisture, the materials, coal and petroleum coke shall be wetted with sprinklers. Such wetting shall continue until the potential for unconfined particulate matter emissions are minimized.
- Water spray shall be used to wet the materials and fuel if inherent moisture and moisture from wetting the storage piles are not sufficient to prevent unconfined particulate matter emissions.

## SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

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- The manufacturing area and the access roadways for the facility shall be paved with asphalt or concrete.
- Vacuum Sweeper shall be used on paved roads.

c. In determining what constitutes reasonable precautions for a particular source, the Department shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice, and the degree of reduction of emissions expected from a particular technique or practice.

[Rule 62-296.320(4)(c), F.A.C.]

### 12. General Pollutant Emission Limiting Standards:

a. No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.

b. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.

[Rule 62-296.320(1)(a)&(2), F.A.C.]

[Note: An objectionable odor is defined in Rule 62-210.200(203), F.A.C., as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance.]

13. Operating Procedures: Operating procedures shall include good operating practices and proper training of all operators and supervisors. The good operating practices shall meet the guidelines and procedures as established by the equipment manufacturers. All plant operators (including supervisors) of air pollution control devices shall be properly trained in plant specific equipment. [Rule 62-4.070(3), F.A.C.]

14. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee shall immediately notify the Department's district office. The notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with Department rules. [Rule 62-4.130, F.A.C.]

15. Circumvention: No person shall circumvent any air pollution control device or allow the emission of air pollutants without the applicable air pollution control device operating properly. [Rule 62-210.650, F.A.C.]

16. Excess Emissions: The following excess emissions provisions can not be used to vary any NSPS or NESHAP requirements from any subpart of 40 CFR 60 or 40 CFR 63.

Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during start-up, shutdown, or malfunction shall be prohibited. [Rule 62-210.700, F.A.C.]

17. Required Number of Test Runs: For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured;

## SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

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provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five-day period. [Rule 62-297.310(1), F.A.C.]

18. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

- a. Did not operate; or
- b. In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total of no more than 400 hours.

4. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

- a. Visible emissions, if there is an applicable standard;

[Rule 62-297.310(7), F.A.C.]

19. Operating Rate During Testing: Unless otherwise stated in the applicable emission limiting standard rule, testing of emissions shall be conducted with the emissions unit operation at permitted capacity: Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]

20. Calculation of Emission Rate: The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]

21. Applicable Test Procedures

a. Required Sampling Time. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes. The minimum observation period for a visible emissions compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The observation period shall include the period during which the highest opacity can reasonably be expected to occur. [Rule 62-297.310(4)(a)1. and 2., F.A.C.]

b. Minimum Sample Volume. Unless otherwise specified in the applicable rule or test method, the minimum sample volume per run shall be 25 dry standard cubic feet (dscf). [Rule 62-297.310(4)(b), F.A.C.]

c. Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1, F.A.C. [Rule 62-297.310(4)(d), F.A.C.]

## SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

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22. Determination of Process Variables:

a. **Required Equipment.** The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

b. **Accuracy of Equipment.** Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

23. **Required Stack Sampling Facilities:** Sampling facilities include sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. All stack sampling facilities must meet any Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E. Sampling facilities shall also conform to the requirements of Rule 62-297.310(6), F.A.C. [Rule 62-297.310(6), F.A.C.]

24. **Test Notification:** The owner or operator shall notify the Department's district office at least 15 days prior to the date on which each formal compliance test is to begin. Notification shall include the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. [Rule 62-297.310(7)(a)9., F.A.C.]

[Note: The owner or operator shall comply with all applicable timelines stated in 40 CFR 60.7, Notification and recordkeeping and 40 CFR 63.9, Notification Requirements.]

25. **Special Compliance Tests:** When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the facility to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions units and to provide a report on the results of said tests to the Department. [Rule 62-297.310(7)(b), F.A.C.]

26. **Records Retention:** All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least five (5) years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department, upon request. [Rules 62-4.160(14) and 62-213.440(1)(b)2., F.A.C.]

27. **Test Reports:** The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA Method 9 test, shall provide the applicable information listed in Rule 62-297.310(8)(c), F.A.C. [Rule 62-297.310(8), F.A.C.]

28. **Excess Emissions Report:** If excess emissions occur, the owner or operator shall notify the Department within one working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the Department may request a written summary report of the incident. Pursuant to the New Source Performance Standards, excess emissions shall also be reported in accordance with 40 CFR 60.7, Subpart A. [Rule 62-4.130, F.A.C.]

## SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

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29. Excess Emissions Report - Malfunctions: In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report. A quarterly written report is hereby requested by the Department for every quarter that the facility is in operation. If no malfunctions occurred during a quarter, a written report stating that no malfunctions occurred shall be submitted. [Rule 62-210.700(6), F.A.C.]
30. Annual Operating Report for Air Pollutant Emitting Facility: The Annual Operating Report for Air Pollutant Emitting Facility shall be completed each year and shall be submitted to the Department's Southwest District office by April 1 of the following year. [Rule 62-210.370(3), F.A.C.]
31. Application for Title V Permit: This permit authorizes minor design changes to the raw mill material feeder and initial operation at the increased capacities to determine compliance with Department rules. A Title V air operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

### SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

#### SUBSECTION A. RAW MILL AND CLINKER PRODUCTION PROCESSES.

The following specific conditions apply to the following emissions units after construction:

EMISSIONS UNIT NO.	FACILITY ID No.	EMISSIONS UNIT DESCRIPTION
044	331.BF300	In-line Raw Mill, Kiln #2, Pre-Heater, Pre-Calciner and Clinker Cooler

This emission unit is subject to 40 CFR 60 Subpart F, Standards of Performance for Portland Cement Plants (40 CFR 60.60 – 60.66) and 40 CFR 60 Subpart A. This emission unit also subject to 40 CFR 63 Subpart LLL, National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry (40 CFR 63.1340 – 63.1359), adopted by reference into Rule 62.204.800, F.A.C. and 40 CFR 63 Subpart A. These emissions units are also subject to the requirements of the state rules as indicated in this permit, particularly Rule 62-212.400, F.A.C., Prevention of Significant Deterioration. Emissions Unit 044 is subject to Rule 62-296.407, F.A.C., Portland Cement Plants.

#### **OPERATIONAL REQUIREMENTS**

1. Hours of Operation: These units may operate continuously, i.e., 8,760 hours per year. [Rule 62-210.200, F.A.C., Definitions -- potential to emit (PTE)]
2. Fuels: Fuels fired in the pyroprocessing system (kiln and calciner) shall not exceed a total maximum heat input of 490 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 5,200 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 147 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 at the transition section between the base of the precalciner and the point where gases exit the kiln; or anywhere in the calciner. The tire feeder mechanisms at the feed end (cold side) of the kiln and at the locations in the calciner shall be designed with a double airlock.
  - b. Coal and/or petroleum coke shall not exceed 20.0 tons per hour. Natural gas shall not exceed 466,000 cf/hr. Distillate oil shall not exceed 3,600 gallons/hr.[Rules 62-4.070(3) and 62-210.200, F.A.C., Definitions -- potential to emit (PTE), F.A.C., and Applicant request, application received 12/20/04 and Permit Modifications 0530021-012-AC and 0530021-015-AC]
3. Fuels and Materials Not Allowed: The owner or operator shall not introduce hazardous wastes, petroleum contaminated soil or materials, used oil, oil fuels, or solid fuels other than those allowed by this permit, or solid wastes other than whole tires into any part of the process or emission control equipment. [Rule 62-4.070(3), F.A.C.]
4. Process Rate Limitations: The kiln shall not process more than 258 tons per hour of dry preheater feed and dry flyash and shall not exceed 5,775 tons in any 24-hour period (240.6 tons per hour, 24 hour average). The kiln shall not produce more than 156 tons of clinker per hour, and 3,500 tons in any 24-hr period (146 tons per hour, 24 hour average).

Process and production rates shall be further limited to 2,107,875 tons of dry preheater feed and dry flyash in any consecutive 12-month period (5,775 tons/day), and 1,277,500 tons of clinker in any consecutive 12-month period (3,500 tons/day).



### SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

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The clinker production rate identified in the above paragraph shall be determined by the following equation:

$$\text{Clinker Production} = [(\text{Feed})(\text{Kiln Feed LOI Factor}) + (\text{Fly Ash Injection})(\text{Fly Ash LOI Factor})]$$

Where:

- Fly ash is determined from the rotary feed system or equivalent.
- LOI for the kiln feed and fly ash is based on a monthly average determined from daily measurements.

[Rule 62-210.200, F.A.C., Definitions -- potential to emit (PTE)]

5. Cement Kiln Dust: Cement kiln dust shall be recirculated in the process and shall not be directly discharged from process or emission control equipment unless authorized by the Department. Cement kiln dust removed from process equipment during maintenance and repair shall be confined and controlled at all times and shall be managed in accordance with the applicable provisions of 40 CFR 261. [Rule 62-4.070(3), F.A.C.]
6. Whole Tire Management: Tires and tire derived fuel shall be stored, handled and managed in accordance with the provisions of Chapter 62-711, F.A.C. [Rule 62-4.070(3), F.A.C.]
7. O&M Plan for Baghouses and ESP: The owner or operator shall prepare an operation and maintenance plan (O&M plan) in accordance with 40 CFR 63, Subpart LLL. The O&M plan shall address the schedule for inspection of this equipment and required preventive maintenance and shall require records of the condition of the equipment upon each inspection and any maintenance activities performed. The O&M plan shall be submitted to the Department's Southwest District office prior to expiration of this permit. [Rule 62-4.070(3), F.A.C. and 40 CFR 63.1350, Monitoring Requirements]

#### COMBUSTION AND PROCESS CONTROL TECHNOLOGY

8. Combustion and Process Control Technology: The owner or operator shall install selective noncatalytic reduction (SNCR). The owner or operator will also install multistage combustion (MSC) or equivalent system and utilize as needed to supplement the controls. The owner or operator shall use SNCR and/or MSC for control of NO<sub>x</sub> emissions. The owner or operator shall control emissions of CO and VOC through control of the combustion process. The owner or operator shall control emissions of SO<sub>2</sub> through design and control of the clinker production process. The owner or operator shall use hydrated lime injection or other control techniques when necessary to achieve the SO<sub>2</sub> emission limits. [Rules 62-4.070(3) and 62-212.400, F.A.C., and BACT]

#### EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

*[Permitting Note: The emission limits for particulate matter and visible emissions imposed by Rule 62-212.400 and BACT are as stringent or more stringent than the limits imposed by the applicable NSPS or NESHAP rules. However, the BACT requirements do not waive or vary any monitoring or record keeping requirements of the NSPS and NESHAP rules.]*

9. Mercury (Hg) into the Pyroprocessing System Limited: The total mass of mercury compounds introduced into the pyroprocessing system, expressed as Hg, in raw mill feed and fuels shall not exceed 122 pounds per consecutive 12-month period. [62-4.070(3), F.A.C.]
10. Performance Testing: The owner or operator shall notify the Department prior to initiating any significant change in the feed or fuel used in the most recent compliant performance test for D/F or PM. For purposes of this condition, significant means any of the following: a physical or chemical change in the feed or fuel; the use of a raw material not previously used; a change in the LOI of the flyash; a change between non-beneficiated flyash and beneficiated flyash. Based on the information provided, the Department will promptly determine if performance testing pursuant to 40 CFR 63.1349 will be required for the new feed or fuel. A significant change shall not include switching to a feed/fuel mix for which the permittee already tested in compliance with the dioxin/furan and PM emission limits. [62-4.070(3), F.A.C.]

**SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS**

11. **Emissions Limits:** Emissions Unit 044 shall have one emission point, the stack of the Kiln #2, Pre-Heater, Pre-Calciner and Clinker Cooler designated by the permittee as 331.BF300. Particulate matter emissions from this emissions unit shall be controlled by a baghouse.

Emissions from this unit shall not exceed the following limits upon the issuance date of this permit.

POLLUTANT	EMISSION LIMIT		AVERAGING TIME	BASIS
PM	0.112 lb/ton of dry preheater feed; 0.185 lb/ton of clinker	28.8 lb/hr	3 hours <sup>3</sup>	BACT
PM <sub>10</sub>	0.097 lb/ton of dry preheater feed; 0.160 lb/ton of clinker	25.0 lb/hr	3 hours <sup>3</sup>	BACT
SO <sub>2</sub>	0.185 lb/ton of clinker	28.8 lb/hour	24 hours <sup>4</sup>	BACT
NO <sub>x</sub>	1.56 lb/ton of clinker <sup>1</sup>	227 lb/hour <sup>1</sup>	30-day rolling	BACT
CO	2.88 lb/ton of clinker	450.0 lb/hour	24 hours <sup>5</sup>	BACT
VOC	0.096 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	41 µg/dscm <sup>8</sup>			Subpart LLL
		122 lb/yr	Annual	Avoid PSD

- NO<sub>x</sub> emissions shall not exceed 227 lbs/hr (30-day rolling average) until a production rate of 3,500 tons per day of clinker is reached. Emissions of NO<sub>x</sub> shall not exceed neither the pound per ton of clinker nor the pound per hour limits shown in the table once a clinker production rate of 3,500 tons per day is reached or June 30, 2012, whichever comes first.
- 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.
- CO limits are 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.
- The averaging time for VOC shall be a 30-day block average specified in 40 CFR 63.1350(h).
- 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.
- Micrograms per dry standard cubic meter (µg/dscm) per 76518 Federal Register / Vol. 71, No. 244 / Wednesday, December 20, 2006 / Rules and Regulations. "As an alternative to meeting the 41 µg/dscm standard you (the operator) may route the emissions through a packed bed or spray tower wet scrubber with a liquid-to-gas ratio of 30 gallons per 1000 actual cubic feet per minute or more and meet a site-specific emissions limit based on the measured performance of the wet scrubber".

*[Permitting Note: The "30-day rolling average NO<sub>x</sub> emission rate" is the arithmetic average of all hourly NO<sub>x</sub> emission data measured by the continuous emission monitoring equipment (converted to lb/ton of clinker and lb/hr) for a given operating day and the twenty-nine unit operating days immediately preceding that unit operating day.*

*Pursuant to 40 CFR 60, Subpart F, an operating day includes all valid data obtained in any daily 24-hour period during which the kiln operates and excludes any measurements made during the daily 24-hour period when the kiln was not operating.*

*A new 30-day average is calculated each unit operating day as the average of all hourly NO<sub>x</sub> emissions rates for the preceding 30 unit operating days if a valid NO<sub>x</sub> emission rate is obtained for at least 75 percent of all operating hours. Zero emissions from non-unit operating days shall not be included in the averaging period in order to show compliance with the emissions limits.}*

### SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

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These emission limits, along with annual production limits, effectively limit annual emissions to: PM, 117.6; PM<sub>10</sub>, 102.3; SO<sub>2</sub>, 117.6; NO<sub>x</sub>, 996.7 CO, 1,840 and VOC, 61.3 tons per year. These emission limits are based on 3,500 tons per day and 1,277,500 tons per year of clinker production. [Rules 62-4.070(3), 62-212.400, F.A.C., and BACT]

12. Malfunction of the SNCR System: Malfunction of the SNCR System is defined as any unavoidable mechanical and/or electrical failure that prevents introduction of ammonia based solutions into the kiln system. In accordance with the limits in condition 12, the exclusion of NO<sub>x</sub> data collected during periods of malfunction and/or repair of the SNCR system is allowed when demonstrating compliance with the 30-day NO<sub>x</sub> standard. No more than 6 hours per calendar day and no more than 30 hours in any 30-day operating block may be excluded. Within one working day of the occurrence, the permittee shall notify the Department's Southwest District of any malfunction of the SNCR system. [Rules 62-4.070(3), F.A.C.]
13. Data Exclusion for CO: In accordance with the limits in condition 12, the exclusion of CO data collected during periods of startup, shutdown, and malfunction of the kiln system is allowed when demonstrating compliance with the 24-hour lb/ton CO standard after the initial 180 day period after initial startup. No more than 7 hours per calendar day and no more than 28 hours in any calendar month may be excluded. Within one working day of the occurrence, the permittee shall notify the Department's Southwest District of any startup, shutdown, or malfunction of the system which an exclusion of data will occur. [Rules 62-4.070(3), F.A.C.]
14. NSPS Particulate Matter and Visible Emissions Standards: No owner or operator of a Portland Cement kiln shall cause, permit, or allow the emission of particulate matter in excess of 0.30 pounds per ton to the kiln (dry basis, excluding fuel), or visible emissions the density of which is greater than 20 percent opacity. [Rule 62-296.407, F.A.C.]

#### COMPLIANCE MONITORING AND TESTING REQUIREMENTS

15. Continuous Emission Monitoring Systems: The owner or operator shall install, calibrate, maintain, and operate a continuous emission monitoring (CEM) system in the in-line kiln/raw mill stack to measure and record the emissions of NO<sub>x</sub>, SO<sub>2</sub>, CO and VOC from the in-line kiln/raw mill, in a manner sufficient to demonstrate compliance with the emission limits of this permit. Compliance with the emission limit for NO<sub>x</sub> shall be based on a 30-day calendar rolling average that shall be recomputed daily from the individual hourly averages. Compliance with the emission limit for SO<sub>2</sub> and the 24-hour CO limits shall be based on a rolling 24-hour average that shall be recomputed every hour from the individual hourly averages for the current hour and the preceding 23 hours. Hourly averages shall be computed according to 40 CFR 60.13. Compliance with the 30-day emission limit for VOC shall be based on a 30-day block average that shall be computed from a minimum of one measurement every minute. The CEM system shall express the results in units of pounds per ton of clinker produced, and pounds per hour. [Rule 62-4.070(3), F.A.C., and BACT]
16. Continuous Opacity Monitor (COM) and Continuous Emissions Monitors (CEM) Systems: Continuous opacity monitor (COM) systems shall be installed, operated, and maintained at the kiln/raw mill baghouse stack pursuant to 40 CFR 63.1350. A continuous emission monitor for emissions of total hydrocarbon is required pursuant to 40 CFR 63.1349 and 63.1350. A continuous monitor for the temperature at the inlet to the in-line kiln/raw mill baghouse is required pursuant to 40 CFR 63.1349 and 63.1350.
17. CEM System Requirements: The selection, installation, calibration, maintenance, operation, record keeping, and reporting of the CEM system shall comply with the requirements of 40 CFR 60.7 and 60.13; 40 CFR 60 Appendix B, Performance Specifications; and, Appendix F, Quality Assurance Procedures. [Rules 62-4.070(3), 62-210.800 and 62-297.520, F.A.C., and BACT]

[Note: 40 CFR 60 Appendix B and Appendix F have been omitted for brevity. See the Code of Federal Regulations for the text of these sections.]

**SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS**

18. Emission Tests Required: In addition to the continuous monitoring requirements of this permit, the owner or operator shall demonstrate compliance with the visible emissions and PM/PM<sub>10</sub> emission limits of this permit for Emissions Unit 044 initially (within 60 days of being able to operate at a clinker production rate of 3,500 tons per day), and annually thereafter, using the test methods of 40 CFR 60 Appendix A and 40 CFR 61 Appendix B specified below.

POLLUTANT	TEST METHOD
PM	Method 5 <sup>1</sup>
PM <sub>10</sub>	Method 5, assuming all PM measured is PM <sub>10</sub>
SO <sub>2</sub>	Method 6 or 6C
NO <sub>x</sub>	Method 7 or 7E
VE	Method 9
CO	Method 10 or 10A
VOC	Method 25 or 25A
Hg	Method 29 or the Ontario Hydro Method for Subpart LLL Hg Tests

<sup>1</sup> The minimum sample volume shall be 30 dry standard cubic feet.

Each test shall be conducted while all continuous monitoring systems are functioning properly, and with all process units operating at their permitted capacity. [Rules 62-4.070(3), 62-296.701(4)(a), (c) and (d), and 62-297.310(7), F.A.C. and BACT]

19. Emissions Tests and Fuel Scenarios: Emission tests of Emissions Unit 044 shall be conducted for the pollutants in condition 11 upon initial operation under the fuel scenario representing the highest potential for generating emissions:

PRIMARY FUEL	SECONDARY FUEL
Coal	Whole tires directly into the pyroprocessing system, petroleum coke, and flyash

Subsequent annual testing under this fuel firing scenario is not required for any firing scenario that is used for less than 400 hours in the previous year, as documented by fuel firing records.

If all of the secondary fuels listed above are not available at the time of testing, the tests shall be based on the fuels that are available. If another secondary fuel becomes available in the future, additional tests shall be conducted with that fuel, if such tests are deemed necessary by the Department, before that fuel is used.

20. Long-Term Mercury Emissions Determination: Materials Balance testing in condition 21 will be used to determine mercury emissions. [Rules 62-4.070(3), 62-296.701(4)(a), (c) and (d), and 62-297.310(7), F.A.C. and BACT]

[Note: 40 CFR 60 Appendix A has been omitted for brevity. See the Code of Federal Regulations for the text of this section.]

21. Material Balance Analysis of Mercury: The owner or operator shall demonstrate compliance with the mercury throughput limitation by material balance and making and maintaining records of monthly and rolling 12-month mercury throughput. The owner or operator shall, for each month of sampling required by this condition, perform daily sampling of the raw mill feed, power plant ash, coal, petroleum coke, and tires, and shall composite the daily samples each month, and shall analyze the monthly composite sample to determine mercury content of these materials for the month. The owner or operator shall determine the mass of mercury introduced into the pyroprocessing system (in units of pounds per month) from the total of the product of the mercury content from the monthly composite analysis and the mass of each material or fuel used during the month. The consecutive 12-month record shall be determined from the individual monthly records for the current month and the preceding eleven months and shall be expressed in units of pounds of mercury per consecutive 12-month period. Such records shall be completed no later than 25 days following the month of the records.

### SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

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The permittee shall have the option of collecting, compositing, analyzing and calculating the Hg leaving the process via the dust permanently withdrawn from the pyroprocessing system. If the Hg concentration is below the detectable limit or limits of quantification, a value of zero will be assumed for the concentration in the dust. [Rule 62-4.070(3), F.A.C.]

#### REPORTING AND RECORD KEEPING REQUIREMENTS

22. Records of Process and Production Rates: The owner or operator shall make and maintain records of the process rate of dry preheater feed in units of tons per hour and tons per consecutive 12-month period, and the production rate of clinker and cement in units of tons per hour and tons per consecutive 12-month period. The owner or operator shall make and maintain records of the production of Portland cement in units of tons per consecutive 12-month period. Records in units of tons per hour shall be based on either hourly averages or daily averages and shall be completed no later than the day following the day of the record. Records in units of tons per consecutive 12-month period shall be made from monthly records of process and production rates for the past 12 months, and shall be completed no later than the 10<sup>th</sup> day of each following month. [Rule 62-4.070(3), F.A.C. and BACT]
23. Records of Fuels and Heat Input: The owner or operator shall record the fuel firing rate continuously. The owner or operator shall maintain records of the quantity and representative analysis of fuels purchased, and such records shall include the sulfur content, and heat content of the fuel for coal, petroleum coke, natural gas, fuel oil, propane, flyash, and whole tires. The records also shall include proximate and ultimate analyses.  
  
The owner or operator shall make and maintain records of heat input to the pyroprocessing system on a block-hour basis, starting at the beginning of each hour, by multiplying the hourly average fuel firing rate by the heating value representative of that fuel from the records of fuel analysis. Such records shall be completed for each block-hour, within 15 minutes of the end of each block-hour. [Rule 62-4.070(3), F.A.C.]
24. Records of Startup, Shutdown and Malfunction: The owner or operator shall make and maintain records of periods of startup, shutdown and malfunction. These records shall show the dates, times and duration of these episodes and shall document suspected cause of each episode, corrective actions taken by the owner or operator and actions taken to reduce excess emissions. [Rule 62-4.070(3), F.A.C.]
25. Material Balance Records of Mercury: The owner or operator shall demonstrate compliance with the mercury throughput limitation by material balance as required by condition 22 and making and maintaining records of monthly and rolling 12-month mercury throughput. [Rule 62-4.070(3), F.A.C.]
26. Appendices: This emissions unit is subject to all applicable requirements of Appendices A, B, C and GC of this permit.

**SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS**

**SUBSECTION B. FINISH MILL AND MATERIAL HANDLING EQUIPMENT.**

The following specific conditions apply to the following emissions units:

EMISSIONS UNIT NO.	BAGHOUSE ID NO.	EMISSIONS UNIT DESCRIPTION
<b>Process: Raw Mix and Raw Meal Handling and Storage System</b>		
045	331.BF640	Filter Dust Bin
	311.LS609	Filter Dust Bin Loadout Spout
046	341.BF400	Blend Silo
047	351.BF420	Kiln Feed Transport
	341.BF410	Blend Silo Discharge
	351.BF410	Kiln Feed Bin
<b>Process: Clinker Handling and Storage</b>		
048	471.BF110	Clinker Transport
050	471.BF120	Clinker Storage Silo
	481.BF155	Clinker Silo Discharge 1
	481.BF165	Clinker Silo Discharge 2
<b>Process: Finish Mill System</b>		
051	511.BF650	Finish Mill Additives
052	531.BF500	Finish Mill and Air Heater
054	531.BF020	Finish Mill Bucket Elevator
57	531.BF400	Finish Mill Cement Transport
	531.BF290	Finish Mill Rejects Transport
<b>Process: Cement Silos &amp; Loadout</b>		
058	612.BF005	Cement Silo 5
	612.BF620	Cement Silo 5 Loading Bin
	622.LS140	Cement Silo 5 Loadout Spout N
	622.LS160	Cement Silo 5 Loadout Spout S
059	611.BF005	Multi Cell Cement Silo
	611.BF045	Multi Cell Cement Silo Alleviator
	611.BF610	Multi Cell Loadout Transport
	611.LS760	Multi Cell Loadout Spout
062	641.BF150	Packing Plant

These emissions units are subject to 40 CFR 60 Subpart F, Standards of Performance for Portland Cement Plants (40 CFR 60.60 – 60.66) and 40 CFR 60 Subpart A. These emissions units are also subject to 40 CFR 63 Subpart LLL, National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing

**SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS**

Industry (40 CFR 63.1340 – 63.1359), adopted by reference into Rule 62.204.800, F.A.C. and 40 CFR 63 Subpart A. These emissions units are also subject to the requirements of the state rules as indicated in this permit, particularly Rule 62-212.400, F.A.C., Prevention of Significant Deterioration.

**OPERATIONAL REQUIREMENTS**

1. Hours of Operation: Emissions Units 050, 051, 052, 054 and 057 are restricted to operate 7,500 hours per year. The other emissions units listed in this Subsection may operate continuously, i.e., 8,760 hours per year. [Rule 62-210.200, F.A.C., Definitions -- potential to emit (PTE)]
2. Process Rate Limitation: The finish mill (EU 052) shall not process more than 240 tons per hour of finish mill feed (feed<sub>FM</sub>) and 1,800,000 tons annually. [Rule 62-210.200, F.A.C., Definitions -- potential to emit (PTE)]
3. O&M Plan for Baghouses: Particulate matter emissions from each emission unit shall be controlled by a baghouse. The owner or operator shall prepare an operation and maintenance plan (O&M Plan) for these emissions units in accordance with 40 CFR 63, Subpart LLL. The O&M plan shall address the schedule for inspection of this equipment and required preventive maintenance and shall require records of the condition of the equipment upon each inspection and any maintenance activities performed. The O&M plan shall be submitted to the Department’s Southwest District office prior to expiration of this permit. [Rule 62-4.070(3), F.A.C. and 40 CFR 63.1350, Monitoring Requirements]
4. Air Heater: The permittee may install an air heater associated with the Finish Mill at Emissions Unit 052.
  - a. The maximum heat input of the air heater shall be limited to 45 MMBtu/hr.
  - b. The operation of the air heater shall be limited to 2,500 hours per year.
  - c. The air heater may be fired only with propane and maximum 0.05% sulfur distillate oil.
 [Application and Rule 62-212.400, F.A.C. (BACT)]

**EMISSION LIMITATIONS AND PERFORMANCE STANDARDS**

5. Emission Limits for Material Handling Operations: Particulate matter emissions from each of the emissions units in this subsection shall be controlled by a baghouse which shall be installed, operated and maintained to meet a design specification of 0.01 grains/dscf for PM and 0.007 grains/dscf for PM<sub>10</sub> emissions. Visible emissions from the material handling emissions units shall not exceed 5% opacity (no visible emissions). [Rules 62-4.070(3), 62-210.700(5) and 62-212.400, F.A.C., and BACT]

*{Permitting Note: The applicant advised that the baghouses are designed to control PM/PM<sub>10</sub> to 0.01 grains/dry standard cubic foot (gr/dscf) and 0.007 gr/dscf, respectively. The 5% opacity limitation is consistent with this design and provides reasonable assurance that annual emissions of PM/PM<sub>10</sub> for all these emission unit systems will be less than 66.5/46.5 TPY, respectively. This annual emission estimate is the proposed PM/PM<sub>10</sub> for all these units and there is a reduction from the particulate matter potential emissions of the “as built” configuration project reviewed under permit No. 0530021-018-AC (PSD-FL-351C) (issued February 18, 2010). Exceedance of the 5% opacity limit shall be deemed an exceedance of the allowed BACT limit condition set in the original 2005 PSD-FL-351 permit (No. 0530021-009-AC) and not necessarily an exceedance of the opacity limitations given in 40 CFR 63, Subpart LLL.}*

6. Emission Limits for Finish Mill and Air Heater – Emissions Unit 052:

This emissions unit shall comply with the following emission limits:

Pollutant	SO <sub>2</sub>	NO <sub>x</sub>	CO	PM/PM <sub>10</sub>	Opacity
Mode	lb/hr	lb/hr	lb/hr	lb/ton feed <sub>FM</sub>	(%)
Air Heater On	2.1	5.40	1.50	0.029/0.020	5%
Air Heater Off	Not applicable	Not Applicable	Not Applicable	0.029/0.020	5%

[Rules 62-4.070 (3) and 62-212.400, F.A.C. (BACT)]

### SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

#### TESTING REQUIREMENTS

7. Visible Emission Stack Tests Required: The owner or operator shall demonstrate compliance with the visible emission limits of this subsection for each baghouse annually, using Method 9. [Rule 62-297.310(7)(a)4.a., F.A.C.]
8. Finish Mill and Air Heater Testing Requirements: The finish mill shall be stack tested with the air heater on initially within 45 days of the issuance of this permit and once every five years thereafter to demonstrate compliance with the emission standards for CO, PM/PM<sub>105</sub> and NO<sub>x</sub>. Compliance testing for visible emissions shall be conducted initially and annually, thereafter. Compliance with the SO<sub>2</sub> limit shall be demonstrated by compliance with the maximum 0.05% sulfur fuel limitation.
9. Test Methods: Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Method for Determining Particulate Matter Emissions
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}
ASTM Methods	Compliance with the distillate fuel oil sulfur limit shall be demonstrated by taking a sample, analyzing the sample for fuel sulfur and including the value with the initial and annual test reports. Sampling the fuel oil sulfur content shall be conducted in accordance with ASTM D4057-88, Standard Practice for Manual Sampling of Petroleum and Petroleum Products, and one of the following test methods for sulfur in petroleum products: ASTM methods D5453-00, D129-91, D1552-90, D2622-94, or D4294-90. More recent versions of these methods may be used. For each subsequent fuel delivery, the permittee shall maintain a permanent file of the certified fuel sulfur analysis from the fuel vendor.

#### REPORTING AND RECORD KEEPING REQUIREMENTS

10. Notification, Recordkeeping and Reporting Requirements: The permittee shall maintain records of the amount of oil and propane used in the finish mill air heater. [Application and Rules 62-212.400, (BACT), 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]
11. Appendices: These emissions units are subject to all applicable requirements of Appendices A, B, C and GC of this permit.



**SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS**

**SUBSECTION C. COAL HANDLING AND PROCESSING EQUIPMENT.**

The following specific conditions apply to the following emissions units after construction:

EMISSIONS UNIT NO.	EMISSIONS UNIT DESCRIPTION
<b>Process: Coal Mill Handling and Grinding System</b>	
060	Coal Mill
061	Fine Coal Bin

Emissions Units 060 and 061 are subject to 40 CFR 60 Subpart Y, Standards of Performance for Coal Preparation Plants (40 CFR 60.250 – 60.254) and 40 CFR 60 Subpart A. Emissions from the coal mill (EU 060) are controlled by a baghouse that discharges through the Line 2 kiln/raw mill/clinker cooler stack. The emissions from the fine coal bin (EU 061) discharge through a separate baghouse and stack. These emissions units are also subject to the requirements of the state rules as indicated in this permit, particularly the requirements of Rule 62-212.400, F.A.C., Prevention of Significant Deterioration. Compliance with the state requirements assures compliance with the 40 CFR 60, Subpart Y requirements.

**OPERATIONAL REQUIREMENTS**

1. Hours of Operation: This emissions unit may operate continuously, i.e., 8,760 hours per year. [Rule 62-210.200, F.A.C., Definitions -- potential to emit (PTE)]
2. Process Rate Limitation: The coal mill shall not crush more than 20.0 tons per hour of coal and/or petroleum coke, 30-day average. The coal mill shall not crush more than 175,200 tons annually. [Rule 62-210.200, F.A.C., Definitions -- potential to emit (PTE)]
3. O&M Plan for Baghouses: The owner or operator shall prepare an operation and maintenance plan (O&M Plan) for Emissions Unit 060. The O&M plan shall address the schedule for inspection of this equipment and required preventive maintenance and shall require records of the condition of the equipment upon each inspection and any maintenance activities performed. The O&M plan shall be submitted to the Department's Southwest District office prior to expiration of this permit. [Rule 62-4.070(3), F.A.C.]

**EMISSION LIMITATIONS AND PERFORMANCE STANDARDS**

4. Emissions Limits: The emissions units (and corresponding points) shall not exceed the following emission limits:

EMISSIONS UNIT NO.	EMISSION POINT	DESCRIPTION	OPACITY LIMIT
060	461.BF400	Coal Mill	10%
061	461.BF560	Fine Coal Bin	5%

Particulate matter emissions from these emissions units shall be controlled by baghouses which shall be installed, operated and maintained to meet a design specification of 0.01 grains/dscf for PM and 0.007 grains/dscf for PM<sub>10</sub> emissions.

[Rules 62-4.070(3), 62-210.700(5), 62-212.400, and BACT]

**COMPLIANCE MONITORING AND TESTING REQUIREMENTS**

5. Emission Tests Required: The owner or operator shall demonstrate compliance with the visible emissions standard for Emissions Unit 060 in conjunction with the compliance demonstrations for the Line 2 kiln/raw mill/clinker cooler stack. The owner or operator shall demonstrate compliance with the visible emissions standard for Emissions Unit 061 annually using EPA Method 9, as described in 40 CFR 60, Appendix A [Rules 62-4.070(3), 62-297.310 and BACT]

**REPORTING AND RECORD KEEPING REQUIREMENTS**

6. Records of Process Rates: The owner or operator shall make and maintain records showing the monthly processing rate of coal and petroleum coke crushed in the coal mill. Records of the processing rate for each

### SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

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month shall be completed no later than 10 days following the end of the month.  
[Rule 62-4.070(3), F.A.C.]

7. Appendices: These emissions units are also subject to all applicable requirements of Appendices A, B, C, D and GC of this permit.

**FIGURE 1--SUMMARY REPORT--GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE**

[Note: This form is referenced in 40 CFR 60.7, Subpart A-General Provisions]

Pollutant (Circle One): SO<sub>2</sub>    NO<sub>x</sub>    TRS    H<sub>2</sub>S    CO    Opacity

Reporting period dates: From \_\_\_\_\_ to \_\_\_\_\_

Company: \_\_\_\_\_

Emission Limitation: \_\_\_\_\_

Address: \_\_\_\_\_

Monitor Manufacturer and Model No.: \_\_\_\_\_

Date of Latest CMS Certification or Audit: \_\_\_\_\_

Process Unit(s) Description: \_\_\_\_\_

Total source operating time in reporting period <sup>1</sup>: \_\_\_\_\_

Emission data summary <sup>1</sup>	CMS performance summary <sup>1</sup>
1. Duration of excess emissions in reporting period due to:	1. CMS downtime in reporting period due to:
a. Startup/shutdown ..... _____	a. Monitor equipment malfunctions .... _____
b. Control equipment problems ..... _____	b. Non-Monitor equipment malfunctions _____
c. Process problems ..... _____	c. Quality assurance calibration ..... _____
d. Other known causes ..... _____	d. Other known causes ..... _____
e. Unknown causes ..... _____	e. Unknown causes ..... _____
2. Total duration of excess emissions ..... _____	2. Total CMS Downtime ..... _____
3. [Total duration of excess emissions] x (100) / [Total source operating time] ..... % <sup>2</sup>	3. [Total CMS Downtime] x (100) / [Total source operating time] ..... % <sup>2</sup>

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 40 CFR 60.7(c) shall be submitted.

*Note: On a separate page, describe any changes since last quarter in CMS, process or controls.*

I certify that the information contained in this report is true, accurate, and complete.

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**APPENDIX A. BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION**

Following is a summary of the Best Available Control Technology (BACT) determination for Line 2. The details are available in the original documents for permit No. 0530021-009-AC (PSD-FL-351), Appendix A, pages BD-1 through BD-19. In 2010, this BACT was revised to include requirements for the finish mill and heater in permit No. 0530021-018-AC (PSD-FL-351C). These documents are available at:

<http://arm-permit2k.dep.state.fl.us/psd/0530021/000013D3.pdf> and  
<http://appprod.dep.state.fl.us/air/emission/apds/listpermits.asp>

This BACT is modified by this permit to reflect the proposed production increase and the reduction of emissions based on lb/ton of clinker. Also, to include the new emissions format for the finish mill and heater PM/PM<sub>10</sub> limits expressed as lb/ton of finish mill feed (lb/ton feed<sub>FM</sub>).

Emissions Unit 044 shall have one emission point, the stack of the Raw Mill, Kiln #2, Pre-Heater, Pre-Calciner and Clinker Cooler, designated by the permittee as 331.BF300. Particulate matter emissions from this emissions unit shall be controlled by a baghouse.

Emissions from this Unit shall not exceed the following limits for the following pollutants.

POLLUTANT	EMISSION LIMIT		AVERAGING TIME	BASIS
PM	0.112 lb/ton of dry preheater feed; 0.185 lb/ton of clinker	28.8 lb/hr	3 hours <sup>3</sup>	BACT
PM <sub>10</sub>	0.097 lb/ton of dry preheater feed; 0.160 lb/ton of clinker	25.0 lb/hr	3 hours <sup>3</sup>	BACT
SO <sub>2</sub>	0.185 lb/ton of clinker	28.8 lb/hour	24 hours <sup>4</sup>	BACT
NO <sub>x</sub>	1.56 lb/ton of clinker <sup>1</sup>	227 lb/hour <sup>1</sup>	30-day rolling	BACT
CO	2.88 lb/ton of clinker	450.0 lb/hour	24 hours <sup>5</sup>	BACT
VOC	0.096 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

- NO<sub>x</sub> emissions shall be controlled by a selective non-catalytic reduction (SNCR) system. 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.
- 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.
- The averaging time for VOC shall be a 30-day block average specified in 40 CFR 63.1350(h).
- 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. The department will require the applicant to install continuous opacity monitoring systems (COMS) on the kiln's stack.

BACT for the material handling emission sources will be control of particulate matter emissions using baghouses to meet the opacity limits stated in Subsections B and C of this permit. These opacity limits are based on the manufacturer design specifications of 0.01 and 0.007 grains per dry standard cubic foot for PM and PM<sub>10</sub> emissions, respectively. Visible emissions from these sources shall not exceed 5 percent opacity, except that Emissions Unit 060 shall not exceed 10% opacity as determined in conjunction with the compliance demonstrations for the Line 2 kiln/raw mill/clinker cooler stack.

BACT for Emissions Unit 052 is the control of particulate matter emissions using a baghouse to meet respective PM and PM<sub>10</sub> emission limits of 0.029 and 0.020 lb/ton of finish mill feed (lb/ton feed<sub>FM</sub>). Visible emissions from this unit shall not exceed 5 percent opacity.

**APPENDIX A. BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION**

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BACT for unenclosed sources is generally control of particulate matter emissions by inherent or applied moisture. Unpaved roads will be sprayed with water to prevent unconfined particulate matter emissions. Material and fuel storage piles will be stored under roof or in enclosed vessels. Storage piles shall be shaped, compacted and oriented to minimize wind erosion. Storage piles shall be wetted with devices located near such piles when visual inspection determines wetting is needed. Paving of the manufacturing area and access roadways is required. Sweeping of paved road will be required.

BACT for the air heater located at the finish mill is use of propane and distillate fuel oil with a maximum sulfur content of 0.05 percent and filtration through the finish mill baghouse.

1. Pursuant to 40 CFR 60, Subparts F and A:

The owner or operator shall comply with all applicable provisions of 40 CFR 60, Subparts F and A, which are available at the following links:

40 CFR 60, Subpart A

40 CFR 60, Subpart F

1. Pursuant to 40 CFR 63, Subparts LLL and A:

The owner or operator shall comply with all applicable provisions of 40 CFR 63, Subparts LLL and A, which are available at the following links.

40 CFR 63, Subpart A

40 CFR 63, Subpart LLL

**APPENDIX D. 40 CFR 60, SUBPART Y AND 40 CFR 60, GENERAL PROVISIONS**

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1. Pursuant to 40 CFR 60, Subparts Y and A:

The owner or operator shall comply with all applicable provisions of 40 CFR 60, Subparts Y and A, which are available at the following links.

[40 CFR 60, Subpart A](#)

[40 CFR 60, Subpart Y](#)



## APPENDIX GC. GENERAL PERMIT CONDITIONS

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The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

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 and 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 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 acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of F.S. and Department rules, unless specifically authorized by an order from the Department.
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 and records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of non-compliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

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 Rules 62-4.120 and 62-730.300, F.A.C., 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 also constitutes:
  - a. Determination of Best Available Control Technology (refer to PSD-FL-351/0530021-009-AC);
  - b. Determination of Prevention of Significant Deterioration (refer to PSD-FL-351/0530021-009-AC); and
  - c. Compliance with New Source Performance Standards.
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 or 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.
  - c. Records of monitoring information shall include:
    - 1) The date, exact place, and time of sampling or measurements;
    - 2) The person responsible for performing the sampling or measurements;
    - 3) The dates analyses were performed;
    - 4) The person responsible for performing the analyses;
    - 5) The analytical techniques or methods used; and
    - 6) 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.

## Friday, Barbara

---

**From:** Friday, Barbara  
**Sent:** Tuesday, June 28, 2011 3:28 PM  
**To:** 'jdaniel@cemexusa.com'  
**Cc:** 'Townsend, George'; 'lillianf.deprimo@cemex.com'; 'John Koogler'; 'mlee@kooglerassociates.com'; Zhang-Torres; 'CountyAdministrator@hernandocounty.us'; 'abrams.heather@epamail.epa.gov'; 'Ana Oquendo'; 'Kathleen Forney'; Gibson, Victoria; Holtom, Jonathan; Heron, Teresa  
**Subject:** CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)  
**Attachments:** 0530021-033ACFinalNotice.pdf

Tracking:	Recipient	Delivery	Read
	✓ 'jdaniel@cemexusa.com'		
	✓ 'Townsend, George'		
	'lillianf.deprimo@cemex.com'		
	✓ 'John Koogler'		
	✓ 'mlee@kooglerassociates.com'		
	Zhang-Torres	Delivered: 6/28/2011 3:28 PM	Read: 6/28/2011 3:32 PM
	'CountyAdministrator@hernandocount		
	'abrams.heather@epamail.epa.gov'		
	'Ana Oquendo'		
	'Kathleen Forney'		
	Gibson, Victoria	Delivered: 6/28/2011 3:28 PM	Read: 6/29/2011 9:14 AM
	Holtom, Jonathan	Delivered: 6/28/2011 3:28 PM	Read: 6/28/2011 8:26 PM
	Heron, Teresa	Delivered: 6/28/2011 3:28 PM	Read: 6/29/2011 8:24 AM

Dear Sir/ Madam:

Attached is the official **Notice of Final Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

*Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).*

Attention: Teresa Heron

Owner/Company Name: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC  
Facility Name: CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT  
Project Number: 0530021-033-AC (PSD-FL-351D)  
Permit Status: FINAL  
Permit Activity: CONSTRUCTION  
Facility County: HERNANDO

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

[http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\\_permit\\_zip\\_files/0530021.033.AC.F\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0530021.033.AC.F_pdf.zip)

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Barbara Friday  
Permitting and Compliance Section  
Division of Air Resource Management (DARM)  
(850)717-9095

**Friday, Barbara**

---

**From:** Microsoft Exchange  
**To:** 'jdaniel@cemexusa.com'; 'Townsend, George'  
**Sent:** Tuesday, June 28, 2011 3:28 PM  
**Subject:** Relayed: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

'jdaniel@cemexusa.com'

'Townsend, George'

**Subject:** CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

---

Sent by Microsoft Exchange Server 2007

## Friday, Barbara

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**From:** Daniel, James S. (Jim) [JDaniel@cemexusa.com]  
**To:** Friday, Barbara  
**Sent:** Tuesday, June 28, 2011 3:30 PM  
**Subject:** Read: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Your message was read on Tuesday, June 28, 2011 3:30:27 PM (GMT-05:00) Eastern Time (US & Canada).

## Friday, Barbara

---

**From:** Daniel, James S. (Jim) [JDaniel@cemexusa.com]  
**Sent:** Tuesday, June 28, 2011 3:39 PM  
**To:** Friday, Barbara  
**Subject:** Re: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Got it. Thanks.  
Jim Daniel

---

**From:** Friday, Barbara  
**To:** Daniel, James S. (Jim)  
**Cc:** Townsend, George; Lillian F Deprimo; 'John Koogler' ; [mlee@kooglerassociates.com](mailto:mlee@kooglerassociates.com) ; Zhang-Torres ; [CountyAdministrator@hernandocounty.us](mailto:CountyAdministrator@hernandocounty.us) ; [abrams.heather@epamail.epa.gov](mailto:abrams.heather@epamail.epa.gov) ; Ana Oquendo ; 'Kathleen Forney' ; Gibson, Victoria ; Holtom, Jonathan ; Heron, Teresa  
**Sent:** Tue Jun 28 14:27:37 2011  
**Subject:** CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

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Attention: Teresa Heron

Owner/Company Name: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC  
Facility Name: CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT  
Project Number: 0530021-033-AC (PSD-FL-351D)  
Permit Status: FINAL  
Permit Activity: CONSTRUCTION  
Facility County: HERNANDO

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[http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\\_permit\\_zip\\_files/0530021.033.AC.F\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0530021.033.AC.F_pdf.zip)

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Barbara Friday  
Permitting and Compliance Section  
Division of Air Resource Management (DARM)  
(850)717-9095

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## Friday, Barbara

---

**From:** Townsend, George [gtownsend@cemexusa.com]  
**To:** Friday, Barbara  
**Sent:** Tuesday, June 28, 2011 3:37 PM  
**Subject:** Read: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Your message was read on Tuesday, June 28, 2011 3:37:27 PM (GMT-05:00) Eastern Time (US & Canada).

## Friday, Barbara

---

**From:** Townsend, George [gtownsend@cemexusa.com]  
**Sent:** Tuesday, June 28, 2011 3:45 PM  
**To:** Friday, Barbara  
**Subject:** RE: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Received, Thank you

George Townsend  
Environmental Manager -Brooksville South - United States of America  
Office: (352) 799-7881 Fax: (352) 799-6088 Mobile: (352) 238-9102  
Address: 10311 Cement Plant Road, Brooksville, FL 34601  
e-Mail: [gtownsend@cemexusa.com](mailto:gtownsend@cemexusa.com)  
[www.cemexusa.com](http://www.cemexusa.com)

Please consider the environment before printing this email.

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

**From:** Friday, Barbara [<mailto:Barbara.Friday@dep.state.fl.us>]  
**Sent:** Tuesday, June 28, 2011 3:28 PM  
**To:** Daniel, James S. (Jim)  
**Cc:** Townsend, George; Lillian F Deprimo; 'John Koogler';  
[mlee@kooglerassociates.com](mailto:mlee@kooglerassociates.com); Zhang-Torres;  
[CountyAdministrator@hernandocounty.us](mailto:CountyAdministrator@hernandocounty.us); [abrams.heather@epamail.epa.gov](mailto:abrams.heather@epamail.epa.gov);  
Ana Oquendo; 'Kathleen Forney'; Gibson, Victoria; Holtom, Jonathan;  
Heron, Teresa  
**Subject:** CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Dear Sir/ Madam:

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Attention: Teresa Heron

Owner/Company Name: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC  
Facility Name: CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT  
Project Number: 0530021-033-AC (PSD-FL-351D)  
Permit Status: FINAL

Permit Activity: CONSTRUCTION

Facility County: HERNANDO

Click on the following link to access the permit project documents:  
[http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\\_permit\\_zip\\_files/0530021.033.AC.F\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0530021.033.AC.F_pdf.zip)

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Barbara Friday

Permitting and Compliance Section

Division of Air Resource Management (DARM)

(850)717-9095

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<<http://survey.dep.state.fl.us/?refemail=Barbara.Friday@dep.state.fl.us>>  
. Thank you in advance for completing the survey.

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## Friday, Barbara

---

**From:** Lillian F Deprimo [lillianf.deprimo@cemex.com]  
**Sent:** Tuesday, June 28, 2011 3:35 PM  
**To:** Friday, Barbara  
**Subject:** CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

### Return Receipt

Your document: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

was received by: [lillianf.deprimo@cemex.com](mailto:lillianf.deprimo@cemex.com)

at: 06/28/2011 15:35:16 EDT

## Friday, Barbara

---

**From:** jkoogler@kooglerassociates.com  
**Sent:** Tuesday, June 28, 2011 3:29 PM  
**To:** Friday, Barbara  
**Subject:** Delivered: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE  
S.CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)  
**Attachments:** ATT00001

Your message was delivered to the recipient.

## Friday, Barbara

---

**From:** John Koogler [jkoogler@kooglerassociates.com]  
**Sent:** Tuesday, June 28, 2011 3:38 PM  
**To:** Friday, Barbara  
**Subject:** Read: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT and POWER PLANT; 0530021-033-AC (PSD-FL-351D)  
**Attachments:** ATT00001

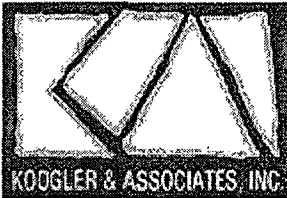
## Friday, Barbara

---

**From:** John Koogler [jkoogler@kooglerassociates.com]  
**Sent:** Tuesday, June 28, 2011 3:38 PM  
**To:** Friday, Barbara; jdaniel@cemexusa.com  
**Cc:** 'Townsend, George'; lillianf.deprimo@cemex.com; mlee@kooglerassociates.com; Zhang-Torres; CountyAdministrator@hernandocounty.us; abrams.heather@epamail.epa.gov; 'Ana Oquendo'; 'Kathleen Forney'; Gibson, Victoria; Holtom, Jonathan; Heron, Teresa  
**Subject:** RE: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Thank you!

John B. Koogler, Ph.D., P.E.  
Koogler and Associates, Inc  
4014 NW 13th St.  
Gainesville, Fl 32609  
Off: 352 377 5822  
Cell: 352 317 8319



---

**From:** Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]  
**Sent:** Tuesday, June 28, 2011 3:28 PM  
**To:** jdaniel@cemexusa.com  
**Cc:** 'Townsend, George'; lillianf.deprimo@cemex.com; 'John Koogler'; mlee@kooglerassociates.com; Zhang-Torres; CountyAdministrator@hernandocounty.us; abrams.heather@epamail.epa.gov; Ana Oquendo; 'Kathleen Forney'; Gibson, Victoria; Holtom, Jonathan; Heron, Teresa  
**Subject:** CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

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Attention: Teresa Heron

Owner/Company Name: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC  
Facility Name: CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT  
Project Number: 0530021-033-AC (PSD-FL-351D)  
Permit Status: FINAL

Permit Activity: CONSTRUCTION

Facility County: HERNANDO

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[http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\\_permit\\_zip\\_files/0530021.033.AC.F\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0530021.033.AC.F_pdf.zip)

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Barbara Friday  
Permitting and Compliance Section  
Division of Air Resource Management (DARM)  
(850)717-9095

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## Friday, Barbara

---

**From:** Max Lee [mlee@kooglerassociates.com]  
**Sent:** Tuesday, June 28, 2011 3:41 PM  
**To:** Friday, Barbara  
**Subject:** Read: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S.  
CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)  
**Attachments:** ATT00001

## Friday, Barbara

---

**From:** Max Lee [mlee@kooglerassociates.com]  
**Sent:** Tuesday, June 28, 2011 3:44 PM  
**To:** Friday, Barbara; jdaniel@cemexusa.com  
**Cc:** 'Townsend, George'; lillianf.deprimo@cemex.com; 'John Koogler'; Zhang-Torres; CountyAdministrator@hernandocounty.us; abrams.heather@epamail.epa.gov; 'Ana Oquendo'; 'Kathleen Forney'; Gibson, Victoria; Holtom, Jonathan; Heron, Teresa  
**Subject:** RE: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Received.

Thank you.

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**Cc:** 'Townsend, George'; lillianf.deprimo@cemex.com; 'John Koogler'; mlee@kooglerassociates.com; Zhang-Torres; CountyAdministrator@hernandocounty.us; abrams.heather@epamail.epa.gov; Ana Oquendo; 'Kathleen Forney'; Gibson, Victoria; Holtom, Jonathan; Heron, Teresa  
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---

**From:** Microsoft Exchange  
**To:** Zhang-Torres; Holtom, Jonathan; Gibson, Victoria  
**Sent:** Tuesday, June 28, 2011 3:28 PM  
**Subject:** Delivered: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

**Your message has been delivered to the following recipients:**

Zhang-Torres

Holtom, Jonathan

Gibson, Victoria

Subject: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

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Sent by Microsoft Exchange Server 2007

**Friday, Barbara**

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**From:** Zhang-Torres  
**To:** Friday, Barbara  
**Sent:** Tuesday, June 28, 2011 3:32 PM  
**Subject:** Read: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Your message was read on Tuesday, June 28, 2011 3:31:46 PM (GMT-05:00) Eastern Time (US & Canada).

## Friday, Barbara

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**From:** Holtom, Jonathan  
**To:** Friday, Barbara  
**Sent:** Tuesday, June 28, 2011 8:26 PM  
**Subject:** Read: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Your message was read on Tuesday, June 28, 2011 8:25:31 PM (GMT-05:00) Eastern Time (US & Canada).

## Friday, Barbara

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**From:** Gibson, Victoria  
**To:** Friday, Barbara  
**Sent:** Wednesday, June 29, 2011 9:14 AM  
**Subject:** Read: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Your message was read on Wednesday, June 29, 2011 9:14:01 AM (GMT-05:00) Eastern Time (US & Canada).

**Friday, Barbara**

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**From:** Microsoft Exchange  
**To:** Heron, Teresa  
**Sent:** Tuesday, June 28, 2011 3:28 PM  
**Subject:** Delivered: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

**Your message has been delivered to the following recipients:**

Heron, Teresa

Subject: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

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Sent by Microsoft Exchange Server 2007



## Friday, Barbara

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**From:** Heron, Teresa  
**To:** Friday, Barbara  
**Sent:** Wednesday, June 29, 2011 8:24 AM  
**Subject:** Read: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Your message was read on Wednesday, June 29, 2011 8:24:07 AM (GMT-05:00) Eastern Time (US & Canada).

**Friday, Barbara**

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**From:** Microsoft Exchange  
**To:** 'John Koogler'; 'mlee@kooglerassociates.com'  
**Sent:** Tuesday, June 28, 2011 3:28 PM  
**Subject:** Relayed: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

'John Koogler'

'mlee@kooglerassociates.com'

Subject: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

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Sent by Microsoft Exchange Server 2007

**Friday, Barbara**

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**From:** Microsoft Exchange  
**To:** 'CountyAdministrator@hernandocounty.us'  
**Sent:** Tuesday, June 28, 2011 3:28 PM  
**Subject:** Relayed: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

'CountyAdministrator@hernandocounty.us'

Subject: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

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Sent by Microsoft Exchange Server 2007

## Friday, Barbara

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**From:** Alice Gura [aliceg@co.hernando.fl.us]  
**To:** Friday, Barbara  
**Sent:** Tuesday, June 28, 2011 4:26 PM  
**Subject:** Read: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC - CEMEX BROOKSVILLE S. CEMENT andPOWER PLANT; 0530021-033-AC (PSD-FL-351D)

Your message was read on Tuesday, June 28, 2011 4:25:37 PM (GMT-05:00) Eastern Time (US & Canada).