Florida Department of Environmental Protection

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2600 Blair Stone Road
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Jennifer Carroll
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Herschel T. Vinyard Jr.
Secretary

PERMITTEE

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

Authorized Representative:
Jim Daniel, Cement Plant Manager

Air Permit No. 0530021-038-AC
Permit Expires: July 31, 2014
Air Construction Permit Revision

Brooksville South Cement Plant
Revision of Alternative Fuel Trials

PROJECT

This is the final air construction permit, which revises Permit No. 0530021-035-AC for the following items: allowing the option for a baghouse on the Schenck feeder system and increasing the amount of tire-derived fuel by 3,000 tons for a total of 7,500 tons. Brooksville South Cement Plant is an existing Portland cement manufacturing plant, which is categorized under Standard Industrial Classification Code No. 3241. The Brooksville South Cement Plant is located in Hernando County at 10311 Cement Plant Road in Brooksville, Florida. The UTM coordinates are Zone 17, 360.0 kilometers East and 3162.5 kilometers North.

This final permit is organized into the following sections: Section 1 (General Information) and Section 2 (Permit Revisions). As noted in the Final Determination provided with this final permit, the final permit is issued as drafted.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality. A copy of this permit modification shall be filed with the referenced permit and shall become part of the permit.

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

Electronic Signature

Office of Permitting and Compliance
Division of Air Resource Management
Department of Environmental Protection
Tallahassee, Florida

Jeffery F. Koerner
2012.02.07 16:39:39 -05'00'

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 Revision) 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 the date indicated below to the following persons.

Mr. Jim Daniel, CEMEX (jdaniel@cemexusa.com)
Mr. George Townsend, CEMEX (gtownsend@cemexusa.com)
Mr. Max Lee, Ph.D., P.E., Koogler and Associates, Inc. (mlee@kooglerassociates.com)
Ms. Cindy Zhang-Torres, DEP Southwest District Office (cindy.zhang-torres@dep.state.fl.us)
Ms. Kathleen Forney, EPA Region 4 (forney.kathleen@epa.gov)
Ms. Heather Ceron, EPA Region 4 (ceron.heather@epa.gov)
Mr. David Langston, EPA Region 4 (langston.david@epa.gov)
Ms. Barbara Friday, DEP OPC (barbara.friday@dep.state.fl.us)
Ms. Lynn Scearce, DEP OPC Reading File (lynn.scearce@dep.state.fl.us)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

Electronic Signature

Lynn Scearce
2012.02.07
16:43:31 -05'00'

FACILITY DESCRIPTION

This project will affect the following existing permitted emissions unit.

Facility ID No. 0530021	
ID No.	**Emission Unit Description**
044	Cement Line 2: Kiln 2, In-line Raw Mill, Pre-Heater, Pre-Calciner and Clinker Cooler

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act.
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is a PSD major stationary source in accordance with Rule 62-212.400, F.A.C.

PROPOSED PROJECT

This permit revises Permit No. 0530021-035-AC which allowed temporary short-term trials to co-fire coal with each of the following alternative fuel materials in the existing cement kiln to gather operational and emissions data: non-chlorinated plastics, tire-derived fuel including tire fluff, reject roofing shingles, clean woody biomass, agricultural fibrous organic byproducts, pre-consumer reject paper, carpet-derived fuel, on-specification (on-spec) used fuel oil generated off-site and engineered fuel. This authorization revises the description of the Schenck feeder system with the option of a baghouse and increase the trial amount of tire-derived fuel by 3,000 tons for a total of 7,500 tons.

SECTION 2. PERMIT REVISIONS

The following permit conditions are revised as indicated.

Permit Being Modified: Permit No. 0530021-031-AC

Affected Emissions Units: EU-044

Subsection 3A, Specific Condition 2: This condition is revised as follows.

> Temporary Equipment: The permittee is authorized to temporarily install and operate the following equipment for the trial: a Schenck feeder system or equivalent with the option of a baghouse to measure and dose alternative fuel materials through the injection feed lines; an electric or diesel-powered shredder (approximately 630 horsepower (hp)) and screen (100 hp); a hopper; a conveyor; ductwork; and other miscellaneous equipment to unload, store and handle the alternative fuel materials. If not electrically powered, only diesel fuel shall be fired in the engines powering the equipment. The feeder system shall be integrated with the operation and monitoring system currently in use in the operator control room and tied into the existing Data Retrieval System. There shall be a visible display of the alternative material feed rate at the feeder system as well as in the operator control room. The alternative material feed rate shall be recorded along with the other fuel and material feed rates. [Application Nos. 0530021-031-AC and 0530021-038-AC, and Rule 62-4.070(3), F.A.C.]

Subsection 3A, Specific Condition 3.b: This condition is revised as follows.

> *Tires*: Tire-derived fuel (TDF) consists of shredded used tires, which may have steel belt material and tire fluff. Tire fluff consists of the shredded materials from the crumb of tires with no metal. No more than 7,500 ~~4,500~~ tons shall be fired in the kiln.