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, LLC
10311 Cement Plant Road
Brooksville, Florida 34601

Authorized Representative:
Jim Daniel, Cement Plant Manager

Air Permit No. 0530021-030-AC
Permit Expires: February 25, 2012
Minor Air Construction Permit

Brooksville South Cement Plant
Clinker Feeder Baghouse (M-04)
EU-012, EP-02

PROJECT

This is the final air construction permit, which authorizes the installation of a baghouse at the Kiln 1 clinker silo discharge in between clinker belt weighfeeder (M-02) and clinker belt conveyor (M-04), Emissions Unit 012. The proposed work will be conducted at the existing Brooksville South Cement Plant, which is a Portland cement plant categorized under Standard Industrial Classification No. 3241. The existing facility is located in Hernando County at 10311 Cement Plant Road in Brooksville, Florida. The UTM coordinates are Zone 17, 360.0 km East, and 3162.5 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit. As noted in the Final Determination provided with this final permit, no changes were made to the draft permit.

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.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. 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.

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

_____ _____

Trina Vielhauer, Acting Director (Date)
Division of Air Resource Management

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 _____ to the persons listed below.

Mr. Jim Daniel, Cement Plant Manager, CEMEX (jdaniel@cemexusa.com)
Mr. George Townsend, Environmental Manager, CEMEX (gtownsend@cemexusa.com)
Mr. Qi Zhang, P.E., Koogler and Associates, Inc. (qzhang@kooglerassociates.com)
Ms. Cindy Zang-Torres, DEP Southwest District Office (cindy.zhang-torres@dep.state.fl.us)
Mr. Mike Halpin, DEP Siting Office (mike.halpin@dep.state.fl.us)
Ms. Kathleen Forney, EPA Region 4 (forney.kathleen@epa.gov)
Ms. Heather Abrams, EPA Region 4 (abrams.heather@epa.gov)
Ms. Ana M. Oquendo, EPA Region 4 (oquendo.ana@epa.gov)
Ms. Vickie Gibson, DEP BAR Reading File (victoria.gibson@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.

_____ _____
(Clerk) (Date)

FACILITY DESCRIPTION

The existing Cemex Construction Materials, LLC Brooksville South Cement Plant is collocated in Hernando County with the Central Power and Lime (CPL) Power Plant at 10311 Cement Plant Road in Brooksville, Florida. The primary Standard Industrial Classification Code (SIC) for the facility is No. 3241 for cement production. The power plant is categorized as SIC No. 4911 for electric power services. The units share a stack that includes a continuous opacity monitoring system (COMS) at the stack, a continuous emissions monitoring system (CEMS) for sulfur dioxide (SO_2) at the stack and a CEMS for nitrogen oxides (NO_X) at the power duct.

PROPOSED PROJECT

The CEMEX Brooksville South Cement Plant proposes to install a baghouse at the Kiln No. 1 clinker silo discharge in between clinker belt weighfeeder (M-02) and clinker belt conveyor (M-04) to provide particulate matter control at the clinker feeder to the clinker belt transfer point. The clinker feeder belt is currently vented by Emissions Unit 012 (M-08) silo discharge baghouse that also vents the discharge of the clinker, gypsum and limestone bins at Finish Mill No. 1. The new clinker feeder baghouse (M-04) will be added to Emissions Unit 012 as a separate emissions point number 2.

This project will modify the following emissions unit.

Facility ID No. 0530021	
ID No.	**Emission Unit Description**
012	**EP-01 Silo Discharge with Baghouse (M-08) and EP-02 Clinker Feeder Baghouse (M-04)**

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Bureau of Air Regulation, Division of Air Resource Management, Florida Department of Environmental Protection (Department). The Bureau of Air Regulation's mailing address is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. All documents related to applications for permits to operate an emissions unit shall be submitted to the Air Resource Section of the Department's Southwest District Office at 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Air Resource Section of the Department's Southwest District Office at 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926.
3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); and Appendix C (Common Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units 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 Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: 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.]
6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Application for Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation 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.]

A. EU -012

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
012	**EP-01 Silo Discharge with Baghouse (M-08) and EP-02 Clinker Feeder Baghouse (M-04).**

EQUIPMENT

1. Clinker Feeder Baghouse: The permittee is authorized to install and operate a horizontal pulse-jet baghouse in between Clinker Feeder (M-02) and Clinker Belt (M-04). The baghouse shall be designed for a dust outlet loading specification of 0.015 grains/actual cubic feet (gr/acf) of exhaust. The design flow rate is 2,125 acf per minute (acfm). [Permit No. PSD-FL-090/AC 27-61033 and Application No. 0530021-030-AC]

PERFORMANCE RESTRICTIONS

2. Permitted Capacity: The maximum expected throughput rate for the clinker feeder belt is 122 tons per hour. [Rule 62-210.200(PTE), F.A.C.]

3. Restricted Operation: The hours of operation are not limited (8760 hours per year). [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

4. Visible Emissions: Visible emissions shall not exceed 5 percent opacity as determined by EPA Method 9.

   {Permitting Note: Based on the outlet dust loading of 0.015 gr/acf and operating hours of 8760 hours per year the maximum estimated particulate emissions are 0.27 lb/hour and 1.18 tons/year.} [Permit No. PSD-FL-090/AC 27-61033 and Application No. 0530021-030-AC.]

TESTING REQUIREMENTS

5. Initial Test: Within 60 days of bringing the new baghouse on line, the permittee shall demonstrate initial compliance with the opacity standard by conducting EPA Method 9. [Permit No. PSD-FL-090/AC 27-61033 and Rule 62-297.310(7), F.A.C.]

6. Annual Tests: During each federal fiscal year (October – September), the permittee shall demonstrate compliance with the opacity standard by conducting EPA Method 9. [Rule 62-297.10(7), F.A.C.]

RECORDS AND REPORTS

7. Baghouse Specification: To demonstrate compliance with the design dust outlet loading, the permittee shall maintain records of the vendor data sheets for the initial bags and any replacement bags. [Rule 62-4.070(3), F.A.C.]

8. Test Notification: The permittee shall notify the Department in writing, at least 15 days prior to the date on which the initial compliance test is to begin, of 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 permittee. [Rule 62-297.310(7), F.A.C.]

9. Test Reports:
   a. 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.
   b. 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.

   [Rule 62-297.310(8), F.A.C.]