

January 26, 2011

CERTIFIED MAIL: 7008 1830 0002 8174 9262
RETURN RECEIPT REQUESTED

PERMITTEE

CEMEX Construction Materials Florida, LLC.
1200 NW 137 Avenue
Miami, FL 33182

Authorized Representative:
Mr. Bob Rogers, Plant Manager

Air Permit No. 0250014-038-AC
Permit Expires: January 25, 2012

CEMEX Construction Materials
Florida, LLC.
Minor Source Air Construction Permit
Installation of one (1) Cement Silo &
one (1) Concrete Mixer

PROJECT

This is the final air construction permit No. 0250014-038-AC, which authorizes the installation of one (1) 800 BBL twin-compartment cement silo and one (1) concrete mixer at the Sweetwater Concrete Batch Plant (Emissions Unit 021). The proposed work will be conducted at the CEMEX Construction Materials Florida, LLC. facility which engages in the production of cement, concrete blocks, and ready mix concrete (Standard Industrial Classification Nos. 3241, 3271, 3273, 1422, and 4953). The facility is located in Miami-Dade County at 1200 NW 137 Avenue, Miami, Florida 33182. The UTM coordinates are Zone 17, 558.20 km East, and 2851.20 km North.

This final permit is organized by 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.

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 the 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

SECTION 2. ADMINISTRATIVE REQUIREMENTS

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 Miami-Dade County Department of Environmental Resources Management (DERM), Air Quality Management Division.

Executed in Miami-Dade County, Florida

H. Patrick Wong, Chief
Air Quality Management Division

(Date)

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) was sent by Certified U.S. mail and/or 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.

Bob Rogers, Plant Manager, CEMEX Construction Materials Florida, LLC. [rrogers@cemexusa.com]

Steven C. Cullen, P.E., Koogler and Associates, Inc., 4014 NW 13 Street, Gainesville, FL 32609
[scullen@kooglerassociates.com]

Jonathan Holtom, P.E., Title V Program Administrator, South Permitting, Bureau of Air Regulation
[Jonathan.Holtom@dep.state.fl.us]

Lennon Anderson, P.E., Florida Department of Environmental Protection, Southeast District Office
[Lennon.Anderson@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)

SECTION 2. ADMINISTRATIVE REQUIREMENTS

FACILITY AND PROJECT DESCRIPTION

Existing Facility

CEMEX Construction Materials Florida, LLC. engages in the production of cement, concrete blocks, and ready-mix concrete. The existing facility consists of the following emissions units.

Facility ID No. 0250014	
ID No.	Emission Unit Description
001	Finish Mill System: Finish Mill No. 1
002	Finish Mill System: Finish Mill No. 2
003	Finish Mill System: Finish Mill No. 3
004	Cement Handling System: (32) Bulk Cement Storage Silos
005	Cement Handling System: Mortar Packhouse
006	Cement Handling System: Cement Packhouse
012	Finish Mill System: Finish Mill No. 4
013	Finish Mill System: Finish Mill No. 5
014	Stone Dryer & Soil Thermal Treatment Facility
015	Cement Handling System: Cement Truck Loading
016	Facility Wide Fugitive Emissions
017	Cement Plant Raw Material Handling (Baghouses)
018	In-Line Kiln/Raw Mill/Clinker Cooler
019	Clinker Handling and Storage System
020	Cement Plant Coal Handling System: Coal Mill System
021	Sweetwater Concrete Block and Concrete Batch Plants
022	Quarry Operations Subject to 40 CFR 60 Subpart OOO: Aggregate Plant Crushers
023	Quarry Operations Subject to 40 CFR 60 Subpart OOO: Other Affected Screening Operations/Belt Conveyors
025	Quarry Operations Not Subject to 40 CFR 60 Subpart OOO
028	Finish Mill System: Finish Mill 6

Proposed Project

Installation of one (1) 800 BBL twin-compartment cement silo, and one (1) concrete mixer. This project will modify the following emissions unit.

Facility ID No. 0250014	
ID No.	Emission Unit Description
021	Sweetwater Concrete Block and Concrete Batch Plants

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility has no 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 Miami-Dade County Department of Environmental Resources Management (DERM), Air Quality Management Division. The DERM's mailing address is: 701 NW 1 Court, Suite 400, Miami, Florida 33136. The DERM's telephone number is 305/372-6925.
All documents related to applications for permits to operate an emissions unit shall be submitted to the DERM Air Quality Management Division.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the DERM Air Quality Management Division. The mailing address of the DERM Air Quality Management Division is: 701 NW 1 Court, Suite 400, Miami, Florida 33136. The DERM's telephone number is 305/372-6925.
3. Appendices: The following Appendices are attached as part of this permit:
 - a. Appendix A. Citation Formats and Glossary of Common Terms;
 - b. Appendix B. General Conditions;
 - c. Appendix C. Common Conditions;
 - d. Appendix D. Common Testing Requirements. (if applicable)
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, 62-297, F.A.C. and Chapter 24, Code of Miami Dade County. 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 DERM or Florida Department of Environmental Protection (FDEP) may require the permittee to conform to new or additional conditions. The DERM or FDEP shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the DERM or FDEP may grant additional time.
[Rule 62-4.080, F.A.C.]
6. Modifications: The permittee shall notify the DERM 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 DERM. 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. Source Obligation:
 - (a) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.
 - (b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation)

SECTION 2. ADMINISTRATIVE REQUIREMENTS

solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

[Rule 62-212.400(12), F.A.C.]

8. Application for Title V Air Operation Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with the FDEP and Miami Dade County 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 air operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the DERM may by law require. The application shall be submitted to the DERM.
[Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]
9. Extension of This Permit: The expiration date of this construction permit may be extended upon request of the owner or operator and submission of the appropriate fee to the Miami-Dade County, Department of Environmental Resources Management, Air Quality Management Division **at least 60 days prior** to the expiration date of this permit.
[Rule 62-4.030, 62-4.050, 62-4.070(3), and 62-4.220 F.A.C.]
10. Annual Operating Report Required: The Annual Operating Report (DEP Form No. 62-210.900(5)) shall be completed each year and submitted to the Miami Dade County, DERM, Air Quality Management Division Office or submitted electronically to the FDEP by April 1 of the following year.
[Rule 62-210.370(3) F.A.C.]
11. Waste Disposal: The owner or operator shall treat, store, and dispose of all liquid, solid and hazardous wastes in accordance with all applicable Federal, State and Local regulations.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

This section of the permit addresses the following emissions unit.

Emissions Unit Number	Emissions Unit Description
021	<p><u>Sweetwater Concrete Block and Concrete Batch Plants</u></p> <p><u>Ready Mix Plant</u></p> <p>Two (2) Dust Collectors to control emissions from the twin-compartment silo. (Existing) Manufacturer: C&W Model No. CP-305-839 Air to Cloth Ratio: 5.3 Filter Area: 304 sq. ft. Flow Rate: 1600 ACFM Filtering efficiency: 99.99% (minimum)</p> <p>Two (2) Dust Collectors to control emissions from the 800 BBL twin-compartment silo. (New) Manufacturer: C&W Model No. CP-305-839 Air to Cloth Ratio: 4.5 Filter Area: 356 sq. ft. Flow Rate: 1600 ACFM Filtering efficiency: 99.99% (minimum)</p> <p>Truck Loadout Mixer: One (1) Dust Collector. (Existing) Manufacturer: C&W Model No. CP-900-1278 Air to Cloth Ratio: 5.5 Filter Area: 912 sq. ft. Flow Rate: 5000 ACFM Filtering efficiency: 99.99% (minimum)</p> <p>Concrete Mixer. (New) PM emissions controlled by the existing C&W Dust Collector Model No. CP-900-1278 that also controls emissions from the truck loadout mixer.</p> <p><u>Block Plant</u></p> <p>One (1) Bin Dust Collector. (Existing) Manufacturer: BHA Model No. Pulse-Pleat Air to Cloth Ratio: 5.1 Flow Rate: 750 ACFM (No modifications to this plant)</p>

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

OPERATIONAL REQUIREMENTS

1. Hours of Operation: This emissions unit system is allowed to operate 8,760 hours per year. [Rules 62-4.160(2) and 62-210.200 (PTE), F.A.C.]

EMISSIONS LIMITATIONS, TEST METHODS & PERFORMANCE STANDARDS

2. Visible Emissions (VE) Limits: Stack emissions from silos, weigh hoppers (batchers), and other enclosed storage and conveying equipment shall be controlled to the extent necessary to limit visible emissions to 5% opacity. [Rule 62-296.414(1), F.A.C.]
3. Test Methods and Procedures: All emissions tests performed on the Sweetwater Concrete Block & Ready Mix Plant shall comply with the following requirements:
 - a. The reference test method for visible emissions shall be EPA Method 9, as described at 40 CFR, Part 60, Appendix A, adopted and incorporated by reference at Rule 62-204.800, F.A.C.
 - b. Test procedures shall conform to the procedures specified in Rule 62-297.310, F.A.C. All test results shall be reported to the DERM in accordance with the provisions of Rule 62-297.310, F.A.C.
 - c. Visible emissions tests of silo dust collector exhaust points shall be conducted while loading the silo at a rate that is representative of the normal silo loading rate. The minimum loading rate shall be 25 tons per hour unless such rate is unachievable in practice. If emissions from the weigh hopper (batcher) operation are also controlled by the silo dust collector, then the batching operation shall be in operation during the visible emissions test. The batching rate during the emissions test shall be representative of the normal batching rate and duration. Each test report shall state the actual silo loading rate during emissions testing and, if applicable, whether or not batching occurred during emissions testing.
 - d. If emissions from the weigh hopper (batcher) operation are controlled by a dust collector which is separate from the silo dust collector, visible emissions tests of the weigh hopper (batcher) dust collector exhaust point shall be conducted while batching at a rate that is representative of the normal batching rate and duration. Each test report shall state the actual batching rate during emissions testing.[Rule 62-296.414(3), F.A.C.]
4. Frequency of Testing: The owner or operator of any concrete batching plant operating under the authority of an air construction permit or air operation permit shall have a performance test conducted for visible emissions for each dust collector exhaust point prior to submitting the application for an initial air operation permit, and annually thereafter. [Rule 62-296.414(4)(b), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

5. Concrete Batching & Ready Mix Plant Reasonable Precautions: The owner or operator shall take reasonable precautions to control unconfined emissions from hoppers, storage and conveying equipment, conveyor drop points, truck loading and unloading, roads, parking areas, stock piles, and yards as required by paragraph 62-296.320(4)(c), F.A.C. The following shall constitute additional reasonable precautions to control Unconfined Emissions of Particulate Matter for this emissions unit:
- a. Management of roads, parking areas, stock piles, and yards, which shall include one or more of the following:
 1. Paving and maintenance of roads, parking areas, and yards.
 2. Application of water or environmentally safe dust-suppressant chemicals when necessary to control emissions.
 3. Removal of particulate matter from roads and other paved areas under control of the owner or operator to mitigate reentrainment, and from building or work areas to reduce airborne particulate matter.
 4. Reduction of stock pile height or installation of wind breaks to mitigate wind entrainment of particulate matter from stock piles.
 - b. Use of spray bar, chute, or partial enclosure to mitigate emissions at the drop point to the truck.
[Rule 62-296.414(2), F.A.C.]