October 8, 2014

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RETURN RECEIPT REQUESTED

PERMITTEE

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

Authorized Representative:
Mr. Ryan E. Mahoney, Vice President

Air Permit No. 0250014-052-AC
Permit Expires: October 7, 2016

CEMEX Construction Materials Florida, LLC.
Minor Source Air Construction Permit
Installation of a Dry Scrubber System

This is the final air construction permit No. 0250014-052-AC, which authorizes the installation of a dry scrubber (lime injection) system. 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.

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 Miami-Dade County Department of Regulatory and Economic Resources (RER), Division of Environmental Resources Management, Air Quality Management.

Executed in Miami-Dade County, Florida

_____ _____

H. Patrick Wong, Chief (Date)
Air Quality 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) 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.

Ryan E. Mahoney, Vice President, CEMEX Construction Materials Florida, LLC.

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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 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/TIMS
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
029	Two (2) Diesel Fuel Limited Use Reciprocating Internal Combustion Engines

Proposed Project

CEMEX Construction Materials Florida, LLC. proposes to install a dry scrubber (lime injection) system. This project will modify the following emissions unit.

Facility ID No. 0250014	
ID No.	**Emission Unit Description**
017	Cement Plant Raw Material Handling System

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.
- The facility is subject to applicable standards contained in 40 CFR 51, 52, 70 & 71 – Green House Gas (GHG) Tailoring Rule.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Miami-Dade County Department of Regulatory and Economic Resources (RER), Division of Environmental Resources Management, Air Quality Management. The RER's mailing address is: 701 NW 1 Court, Suite 400, Miami, Florida 33136. The RER's telephone number is 305/372-6925. All documents related to applications for permits to operate an emissions unit shall be submitted to the RER, Division of Environmental Resources Management, Air Quality Management.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the RER, Division of Environmental Resources Management, Air Quality Management. The mailing address of the RER, Division of Environmental Resources Management, Air Quality Management is: 701 NW 1 Court, Suite 400, Miami, Florida 33136. The RER, Division of Environmental Resources Management, Air Quality Management'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)
   e. Appendix E. 40 CFR 63 NESHAP Subpart A – General Provisions
   f. Appendix F. 40 CFR 63 Subpart LLL – National Emissions Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry

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, 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 RER or Florida Department of Environmental Protection (FDEP) may require the permittee to conform to new or additional conditions. The RER or FDEP shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the RER or FDEP may grant additional time.
   [Rule 62-4.080, F.A.C.]

6. Modifications: The permittee shall notify the RER 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 RER. 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) 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. *Commencing operation* begins on the first day the proposed equipment injects limestone into the kiln system. 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 RER may by law require. The application shall be submitted to the RER.
[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 Regulatory and Economic Resources, Division of Environmental Resources Management, Air Quality Management **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 Department of Regulatory and Economic Resources, Division of Environmental Resources Management, Air Quality Management 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.

This section of the permit addresses the following emissions unit(s).

ARMS Emissions Unit No.	Brief Description of Emissions Unit
017	Cement Plant Raw Material Handling System

Raw Materials Handling operations are controlled by the following baghouses:

Emission Point	Descriptions of Emissions Points
K21-BF1	Additive Transfer *(Existing)*
K21-BF2	Additive Transfer (Vents Indoors) *(Existing)*
K22-BF1	Soil/Ash Transfer *(Existing)*
K22-BF2	Soil/Ash Transfer *(Existing)*
K51-BF1	Slag/Soil Elevator (Vents Indoors) *(Existing)*
391-BF1	Raw Meal Transfer Elevator *(Existing)*
391-BF2	Raw Meal Silo *(Existing)*
391-BF3	Dust Bin *(Existing)*
391-BF4	**Dust Collector for Lime Silo *(New)***
431-BF1	Kiln Feed Transfer *(Existing)*
431-BF2	Kiln Feed Transfer Return *(Existing)*

{Permit Note: (New) and (Existing) status in above table apply to NESHAP LLL status. Emission points venting inside a building are considered fugitive sources and only subject to NESHAP visible emissions testing requirements. See conditions 8.vi & vii, and 11. Requirements.}

EQUIPMENT

1. Equipment: The permittee is authorized to install equipment necessary for a new dry scrubber (lime injection) system. Emissions point 391-BF4 is added as a new emissions point. This emissions point is not part of the mill sweep or air separator particulate matter (PM) control devices.
   [Application No. 0250014-052-AC]

PERFORMANCE RESTRICTIONS AND EMISSIONS STANDARDS

2. Rule Applicability: This emissions unit is subject to the applicable standards contained in 40 CFR 63 Subpart LLL – National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry, and 40 CFR 63 Subpart A – General Provisions.
   [40 CFR 63.1340]

3. Dry Scrubber System: The permittee is authorized to inject dry lime into the outlet of the preheater fan as an option to control HCL emissions.
   [Rule 62-4.070(3), and Application No. 0250014-052-AC]

4. Hours of Operation: This emissions unit is allowed to operate 8,760 hours per year.
   [Rule 62-210.200(PTE), F.A.C.]

5. Emissions limits for affected sources other than kilns; clinker coolers; new and reconstructed raw material dryers. The owner or operator of each new or existing raw material, clinker, or finished product storage bin; conveying system transfer point; bagging system; and bulk loading or unloading system; raw and finish mills, and each existing raw material dryer, at a facility which is a major source subject to the provisions of 40 CFR 63 Subpart LLL must not cause to be discharged any gases from these affected sources which exhibit opacity in excess of ten percent.
   [40 CFR 63.1345]

COMPLIANCE REQUIREMENTS

6. a) Initial Compliance Requirements: The permittee must demonstrate initial compliance with the emissions standards and operating limits by using the test methods and procedures in 40 CFR 63.1349 and 40 CFR 63.7.

   b) Opacity Compliance: The permittee must demonstrate initial compliance with the opacity emissions standards by using the performance test methods and procedures in 40 CFR 63.1349(b)(2). The maximum 6-minute average opacity exhibited during the performance test period must be used to determine whether the affected source is in initial compliance with the standard.

   [40 CFR 63.1348(a)(2)]

7. Opacity Monitoring Requirements for Existing Emissions Sources: **This condition shall apply to this emissions unit up to and including September 8, 2015**. Procedures to be used to periodically monitor affected sources subject to opacity standards under 40 CFR 63.1346 and 63.1348. Such procedures must include the provisions of paragraphs (a)(4)(i) through (a)(4)(vii) of 40 CFR 63.1350.

   (i) The owner or operator must conduct a monthly **1-minute** visible emissions test of each affected source in accordance with Method 22 of Appendix A-7 to 40 CFR 60 . The performance test must be conducted while the affected source is in operation.

   (ii) If no visible emissions are observed in six consecutive monthly tests for any affected source, the owner or operator may decrease the frequency of performance testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the owner or operator must resume performance testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.

   (iii) If no visible emissions are observed during the semi-annual test for any affected source, the owner or operator may decrease the frequency of performance testing from semi-annually to annually for that affected source. If visible emissions are observed during any annual performance test, the owner or operator must resume performance testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six (6) consecutive monthly tests.

   (iv) If visible emissions are observed during any Method 22 performance test, of Appendix A-7 to 40 CFR 60, the owner or operator must conduct a **6-minute** test of opacity in accordance with Method 9 of Appendix A-4 to 40 CFR 60. The Method 9 performance test, of Appendix A-4 to 40 CFR 60, must begin within 1 hour of any observation of visible emissions.

   (v) The requirement to conduct Method 22 visible emissions monitoring under this paragraph shall not apply to any totally enclosed conveying system transfer point, regardless of the location of the transfer point. "Totally enclosed conveying system transfer point" shall mean a conveying system transfer point that is enclosed on all sides, top, and bottom. The enclosures for these transfer points shall be operated and maintained as total enclosures on a continuing basis in accordance with the facility operations and maintenance plan.

   (vi) If any partially enclosed or unenclosed conveying system transfer point is located in a building, the owner or operator of the portland cement plant shall have the option to conduct a Method 22 visible emissions monitoring test according to the requirements of paragraphs (a)(4)(i) through (iv) of 40 CFR 63.1350 for each such conveying system transfer point located within the building, or for the building itself, according to paragraph (a)(4)(vii) of 40 CFR 63.1350.

   (vii) If visible emissions from a building are monitored, the requirements of paragraphs (a)(4)(i) through (iv) of 40 CFR 63.1350 apply to the monitoring of the building, and you must also test visible emissions from each side, roof and vent of the building for at least **1 minute**. The test must be conducted under normal operating conditions.

   [40 CFR 63.1350(a)(4)(i)-(a)(4)(vii)]

8. Opacity Monitoring Requirements: For new emissions sources, this condition shall apply immediately upon startup. For existing sources, **this condition shall apply to this emissions unit effective September 9, 2015.** The permittee must conduct required emissions monitoring in accordance with the provisions of paragraphs (f)(1)(i) through (f)(1)(vii) of 40 CFR 63.1350 below, and in accordance with the operation and maintenance plan developed in accordance with 40 CFR 63.1347.
   (i) The owner or operator must conduct a monthly **10-minute** visible emissions test of each affected source in accordance with Method 22 of Appendix A-7 to 40 CFR 60. The performance test must be conducted while the affected source is in operation.
   (ii) If no visible emissions are observed in six consecutive monthly tests for any affected source, the owner or operator may decrease the frequency of performance testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the owner or operator must resume performance testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
   (iii) If no visible emissions are observed during the semi-annual test for any affected source, the owner or operator may decrease the frequency of performance testing from semi-annually to annually for that affected source. If visible emissions are observed during any annual performance test, the owner or operator must resume performance testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
   (iv) If visible emissions are observed during any Method 22 performance test, of Appendix A-7 to 40 CFR 60, the owner or operator must conduct **30 minutes** of opacity observations, recorded at 15-second intervals, in accordance with Method 9 of Appendix A-4 to 40 CFR 60. The Method 9 performance test, of Appendix A-4 to 40 CFR 60, must begin within 1 hour of any observation of visible emissions.
   (v) Any totally enclosed conveying system transfer point, regardless of the location of the transfer point is not required to conduct Method 22 visible emissions monitoring under this paragraph. The enclosures for these transfer points must be operated and maintained as total enclosures on a continuing basis in accordance with the facility operations and maintenance plan.
   (vi) If any partially enclosed or unenclosed conveying system transfer point is located in a building, you must have the option to conduct a Method 22 performance test, of appendix A–7 to 40 CFR, according to the requirements of paragraphs (f)(1)(i) through (f)(1)(iv) of 40 CFR 63.1350 for each such conveying system transfer point located within the building, or for the building itself, according to paragraph (f)(1)(vii) of 40 CFR 63.1350.
   (vii) If visible emissions from a building are monitored, the requirements of paragraphs (f)(1)(i) through (f)(1)(iv) of 40 CFR 63.1350 apply to the monitoring of the building, and you must also test visible emissions from each side, roof, and vent of the building for at least **10 minutes**.

   [40 CFR 63.1350(f)(1)(i)-(f)(1)(vii)]

   {Permitting Note: this equipment includes totally enclosed conveying transfer points in the lime injection system which are subject to the NESHAP requirements for "totally enclosed conveying transfer points".}
   Totally enclosed conveying system transfer point means a conveying system transfer point that is enclosed on all sides, top, and bottom.

PERFORMANCE TEST AND REPORTING REQUIREMENTS

9. Annual Opacity Test Required: For each emissions point that does not vent indoors, the permittee shall have a formal compliance 30 minute test per 62-297.310(4)(a)2 conducted annually for visible emissions during the federal fiscal year (October 1 – September 30). (Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.). The maximum 6 minute average opacity during the test must not exceed the opacity limit in Condition 12. (i.e. 5% in lieu of particulate stack testing). Visible emissions testing, required for NESHAP LLL compliance, conducted upon permit renewal in Condition 11. suffices for annual opacity testing of that year. If this option is chosen, the maximum 6 minute average reading during the first 30 minutes of the test shall not exceed the 5% opacity standard.
[Rules 62-297.310(7)(a)4.a&c, 62-297.310(4)(a)2, F.A.C.]

10. Performance Test Results: Performance test results must be documented in complete test reports that contain the information required by paragraphs (a)(1) through (a)(10) of 40 CFR 63.1349, as well as all other relevant information. As described in 40 CFR 63.7(c)(2)(i), the site-specific plan to be followed during performance testing must be made available to the Administrator prior to testing, if requested.
(1) A brief description of the process and the air pollution control system;
(2) Sampling location description(s);
(3) A description of sampling and analytical procedures and any modifications to standard procedures;
(4) Test results;
(5) Quality assurance procedures and results;
(6) Records of operating conditions during the performance test, preparation of standards, and calibration procedures;
(7) Raw data sheets for field sampling and field and laboratory analyses;
(8) Documentation of calculations;
(9) All data recorded and used to establish parameters for monitoring; and
(10) Any other information required by the performance test method.
[40 CFR 63.1349(a)]

11. Opacity Tests: The permittee must conduct opacity tests in accordance with Method 9 of appendix A–4 to 40 CFR 60 initially, and upon the Title V permit renewal. The duration of the Method 9 performance test must be 3 hours (30 6-minute averages), except that the duration of the Method 9 performance test may be reduced to 1 hour if the conditions of paragraphs (i) through (ii) of this condition apply. For batch processes that are not run for 3-hour periods or longer, compile observations totaling 3 hours when the unit is operating.
(i) There are no individual readings greater than 10 percent opacity;
(ii) There are no more than three readings of 10 percent for the first 1-hour period.
[40 CFR 63.1349(b)(2)]

12. Particulate Emissions Limits: The maximum permitted particulate emissions rates from this emissions unit (from each of these emissions points) is 0.01gr/dscf. Pursuant to Rule 62-297.620(4), F.A.C., in lieu of particulate stack testing the permittee shall demonstrate compliance by adhering to an opacity limit of 5%. If the RER has reason to believe that the applicable particulate weight emission standard is not being met, RER shall require that compliance be demonstrated by the test method specified in the applicable rule.
[Rule 62-4.070(3), F.A.C.]

13. The fly ash handling and lime injection system including transfer equipment, flyash bin, and pneumatic system exhaust, shall be totally enclosed and vented through fabric filters.
[Rule 62-4.070(3), F.A.C.]

14. Report Submittal: As of December 31, 2011 and within 60 days after the date of completing each performance evaluation or test, as defined in 40 CFR 63.2, conducted to demonstrate compliance with 40 CFR 63 Subpart LLL, you must submit the relative accuracy test audit data and performance test data, except opacity data, to EPA by successfully submitting the data electronically to EPA's Central Data Exchange (CDX) by using the Electronic Reporting Tool (ERT) (*see http://www.epa.gov/ttn/chief/ert/ert_tool.html/*).
    [40 CFR 63.1349(d)(2)]