



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Jonathan P. Steverson
Secretary

PERMITTEE

CEMEX Construction Materials Florida, LLC
10311 Cement Plant Road
Brooksville, Florida 34601

Air Permit No. 0530021-055-AC
Permit Expires: 10/31/2016
Minor Air Construction Permit

Authorized Representative:
Mr. Jim Daniel, Plant Manager

CEMEX Brooksville South Cement Plant
Cement Storage Silo and Railcar Loadout

PROJECT

This is the final air construction permit, which authorizes the construction of a new emissions unit which will include a new cement silo and railcar loadout system with baghouses to serve Cement Line 2. The proposed work will be conducted at the existing Brooksville South Cement Plant, which consists of two Portland cement manufacturing lines 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.

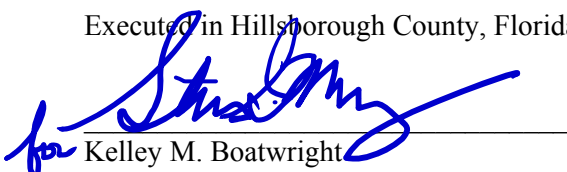
This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, 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 or only minor changes and clarifications 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 Hillsborough County, Florida


Kelley M. Boatwright
Permitting & Waste Cleanup Program Administrator
Southwest District

FINAL PERMIT

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Air Permit package 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. James S. 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)

Mr. Amaury Betancourt, FDEP Southwest District Amaury.Betancourt@dep.state.fl.us

Ms. Danielle Henry, FDEP Southwest District Danielle.D.Henry@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)

October 16, 2015
(Date)

SECTION 1. GENERAL INFORMATION (FINAL)

FACILITY DESCRIPTION

The existing facility consists of two Portland cement manufacturing lines; associated raw and product material handling activities; coal handling activities and auxiliary equipment; as well as, all of the land designated as the South Brooksville facility and includes the following emissions units (EUs).

Facility ID No. 0530021		
Brooksville South Portland Cement Line 1 - Regulated Emissions Units		
EU ID No.	Facility's Internal ID No.	Brief Description
001	D-75	Filter Dust Bin (was Pre-Mix Bin) with Baghouse
002	D-67	Fly Ash/Equilibrium Catalyst Storage Silo with Baghouse
004	F-14	Raw Meal Transfer with Baghouse
006	G-12 (A & B)	Two Blend Silos with Baghouse
007	H-15	Kiln Feed Surge Bin with Baghouse
008	S-04	Clinker Receiving/Handling System
009	K-07 & L-03	Clinker Cooler Discharge with Baghouse
010	L-05, L-06 & L-07	Clinker Storage Silos with Baghouse
011	L-08	Gypsum and Limestone Bins (was Clinker Silo) with Baghouse
012	M-08 M-04	EP-01 Silo Discharge with Baghouse (M-08) and EP-02 Clinker Feeder Baghouse (M-04).
013	N-13	Finish Mill with Baghouse
014	Q-17	A-Side Cement Storage Silos #1 & #2 Discharge System with Baghouse
015	Q-15	Cement Storage Silos #1 & #2 with Baghouse
019	M-05	Finish Mill Feed Belt with Baghouse
020		Cement Kiln 1, In-Line Kiln/Raw Mill and Clinker Cooler 1 with Baghouse
021	Q-18	B-Side Cement Storage Silos #1, #2 & #3 Discharge System with Baghouse
022	Z-15	Cement Storage Silo #3 with Baghouse
023		Cement Storage Silo #4 and Truck Loadout System with Baghouse
024	Z-18	Cement Storage Silo and Railcar Loadout System with Baghouses
064	M03	No. 1 Clinker Silo Discharge Belt Dust Control @ Finish Mill No. 1

Brooksville South Portland Cement Plant 2 - Regulated Emissions Units		
EU ID No.	Baghouse ID No.	Brief Description
Pyroprocessing System		
044	331.BF300	Kiln, In-line Raw Mill, Pre-Heater, Pre-Calcliner and Clinker Cooler No. 2
Raw Mill and Raw Meal Handling and Storage System		
045	331.BF640	Filter Dust Bin

SECTION 1. GENERAL INFORMATION (FINAL)

	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
Clinker Handling and Storage		
048	471.BF110	Clinker Transport
050	471.BF120	Clinker Storage Silo,
	481.BF155	Clinker Silo Discharge 1
	481.BF165	Clinker Silo Discharge 2
Finish Mill System		
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 Finish Mill Rejects Transport
Cement Silos and Loadout		
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
Other		
Not Numbered		Alternative Fuel Handling and Processing
060	461.BF400	Coal Mill
061	461.BF560	Fine Coal Bin
062	641.BF150	Packing Plant
063	N/A	Emergency Diesel Generator
Brooksville South Portland Cement Line 1 and Portland Cement Line 2		
042	N/A	Coal Receiving, Handling and Transfer System (fugitives)
Not Numbered		Facility wide Fugitive Emissions

SECTION 1. GENERAL INFORMATION (FINAL)

PROPOSED PROJECT

This project is for the construction of a new emissions unit which will include a new cement silo and railcar loadout system with baghouses. The emissions unit will receive cement from the finish mill of Cement Line 2 and will load the cement into railcars. A dust collector will be located atop of the storage silo and a compact filter module will be placed below the railcar loadout system where cement is discharged into the railcars.

This project will add the following emissions unit.

Facility ID No. 0530021	
ID No.	Emission Unit Description
065	Cement Storage Silo and Railcar Loadout System with Baghouses (Cement Line 2)

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 (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

PERMIT HISTORY/AFFECTED PERMITS

Reference current Operation Permit 0530021-047-AV.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

1. Permitting Authority: The permitting authority for this project is the Southwest District of the Department of Environmental Protection (Department). The mailing address, phone number and e-mail address is:

Florida Department of Environmental Protection
Southwest District Office
Air and Solid Waste Permitting Program
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-470-5700
E-mail: SWD_Air_Permitting@dep.state.fl.us

All documents related to applications for permits shall be submitted to the above e-mail address and/or address.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Florida Department of Environmental Protection (Department), Southwest District Office's Compliance Assurance Program. The mailing address, phone number and e-mail address is:

Florida Department of Environmental Protection
Southwest District Office
Compliance Assurance Program
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-470-5700
E-mail: SWD_Air@dep.state.fl.us

All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the above e-mail address and/or address.

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);
 - Appendix C (Common Conditions); and
 - Appendix D (Common Testing Requirements).
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.]

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

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. Construction and Expiration. The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires.
[Rules 62-4.070(4), 62-4.080 & 62-210.300(1), F.A.C.]
8. Annual Operating Report - On or before **April 1** of each year, the permittee shall submit a completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" (AOR) for the preceding calendar year. The report may be submitted electronically in accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be sent to the Compliance Authority.
[Rule 62-210.370(3), F.A.C.]
9. Application for Title V Air Operation Permit - This permit authorizes construction of the permitted emissions unit and initial operation to determine compliance with Department rules. A Title V air operation permit is required for continued 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 or commencing operation as modified. Commencing operation means setting into operation of any emissions unit for any purpose. To apply for a Title V air operation permit, the applicant shall submit the following:
 - a. the appropriate permit application form (*see current version of Rule 62-210.900, F.A.C. (Forms and Instructions), and/or FDEP Division of Air Resource Management website at: <http://www.dep.state.fl.us/air/>*); and
 - b. a copy of the initial compliance test report required by Specific Condition No. A.12 and the revised Operation and Maintenance Plan required by Specific Condition No. A.13, if not previously submitted.
[Rules 62-4.030, 62-4.050 and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. Brooksville Portland Cement Line 2 – Material Handling Activities (EU No. 65)

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
065	Cement Storage Silo and Railcar Loadout System with Baghouses (Cement Line 2)

FEDERAL REGULATIONS

- A.1. Federal Regulatory Requirements: This emissions unit is subject to 40 CFR 63, Subpart LLL – National Emissions Standards for Hazardous Air Pollutants from Portland Cement Manufacturing Industry; applicable sections of 40 CFR 63, Subpart A - General Provisions; 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants; and applicable sections of 40 CFR 60, Subpart A - General Provisions. These subparts are adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8) & (11), F.A.C.]

EQUIPMENT

- A.2. Cement Silo and Railcar Loadout: The permittee is authorized to install a new cement silo and railcar loadout system with dust collectors.
- The cement silo will have a design capacity 1500 ton and a design throughput rate of 250 tons per hour. The silo will be equipped with a Dust Control and Loading Systems (DCL) model BV64-100 Bin Vent Dust Collector.
 - The loadout system will have a design through put rate of 750 tons per hour and will be equipped with Dust Control and Loading Systems (DCL) model CFM470 Pulse Jet Compact Filter Module.
[Application No. 0530021-055-AC]

PERFORMANCE RESTRICTIONS

- A.3. Permitted Capacity: The maximum process/throughput rates and other critical operational parameters for this emissions unit are given below:

EU ID No.	Description	Stack ¹	BH ²	Temp ³	Flow ⁴	Throughput
065	Cement Storage Silo and Railcar Loadout System (for Cement Line 2) – is an activity of cement pneumatically transferred from the finish mill of Cement Line 2 to the cement storage silo and from the cement storage silo to railcars.	<u>Silo</u> 80/1.0	<u>Silo</u> Low	<u>Silo</u> 70	<u>Silo</u> 3000 <u>Railcars</u> 2400	<u>Silo</u> 250 TPH <u>Railcars</u> 750 TPH
1. Height (ft)/diameter(ft) 2. Baghouse temperature range 3. Normal temperature degrees Fahrenheit (°F) 4. Nominal flow in actual cubic feet per minute (acfm) which is approximately equal to standard cubic feet per minute (scfm)						

[Rule 62-210.200(PTE), F.A.C.]

- A.4. 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

- A.5. Visible Emissions Standard: Visible emissions shall not equal or exceed 10% opacity.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. Brooksville Portland Cement Line 2 – Material Handling Activities (EU No. 65)

[40 CFR 60.62(c), Subpart F]

MONITORING REQUIREMENTS

- A.6. Opacity Monitoring Requirements: Opacity monitoring shall be conducted in accordance with the provisions of 40 CFR 63.1350(f)(1)(i) through (vii) and in accordance with your monitoring plan developed under 40 CFR 63.1350(p).

[40 CFR 63.1350(f)(1), Subpart LLL and 40 CFR 60.64(b)(3), Subpart F]

TESTING REQUIREMENTS

- A.7. Initial Compliance Tests: The cement storage silo and rail car dust collector exhausts shall be tested to demonstrate initial compliance with the visible emissions standards. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit.

[Rules 62-4.070(3) and 62-297.310(8)(b)1, F.A.C.; 40 CFR 60.8, Subpart A]

- A.8. Annual Compliance Tests: During each calendar year (January 1st to December 31st), the emissions unit shall be tested to demonstrate compliance with the emissions standards for visible emissions.

[Rule 62-297.310(8)(a)1, F.A.C.]

- A.9. Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit.

[Rule 62-297.310(9), F.A.C.]

- A.10. 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
9	Visual Determination of the Opacity of Emissions from Stationary Sources
22	Visual Determination of Fugitive Emissions

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rules 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

NOTIFICATION REQUIREMENTS

- A.11. Notification of Operation Commencement: The permittee shall notify the Compliance Authority in writing of the date of commencing operation of the EU No. 65 after completing the modifications authorized by this permit, no later than fifteen (15) days after that date. Commencing operation means setting into operation of any emissions unit for any purpose.

[Rules 62-4.070, and 62-210.200, F.A.C., (definition of Commence Operation)]

RECORDS AND REPORTS

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. Brooksville Portland Cement Line 2 – Material Handling Activities (EU No. 65)

- A.12. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310(10), F.A.C.]
- A.13. Operation and Maintenance Plan: A revised operations and maintenance plan (which includes this emissions unit, EU No. 65) must be prepared and submitted for review and approval as part of the application for the revised Title V Operation Permit. The plan must include the information specified in 40 CFR 63.1347(a).
[40 CFR 63.1347, Subpart LLL]