

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor
Jeff Kottkamp
Lt. Governor
Michael W. Sole
Secretary

PERMITTEE:

CEMEX Cement, Inc.
16301 Ponce De Leon Boulevard
Brooksville, Florida 34614-0849

Authorized Representative:
Jimmy L. Rabon, Plant Manager

Air Permit No 0530010-030-AC
North Brooksville Cement Plant
Facility ID No. 0530010
BART Project
Permit Expires: June 30, 2014

PLANT AND LOCATION

CEMEX Cement, Inc. operates the existing CEMEX Cement North Brooksville Plant, which is located in Hernando County at 16301 Ponce De Leon Boulevard northwest of Brooksville, Florida. The facility is an existing cement plant, which is identified by Standard Industrial Classification code No. 3241.

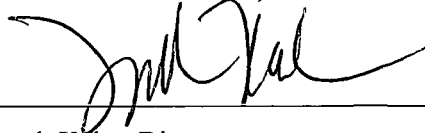
STATEMENT OF BASIS

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.). Pursuant to Rule 62-296.340, F.A.C., the permittee shall install the air pollution control equipment and/or implement the air pollution control measures that are specified by this permit as the Best Available Retrofit Technology (BART).

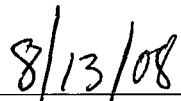
EFFECTIVE DATE

Unless otherwise specified by this permit, the BART-eligible sources shall comply with the conditions of this permit as expeditiously as practicable, but not later than December 31, 2013. [Rule 62-296.340(3)(b)2, F.A.C.]

Executed in Tallahassee, Florida



Joseph Kahn, Director
Division of Air Resource Management



(Date)

NOTICE OF FINAL PERMIT

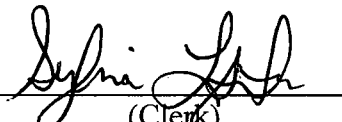
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final Permit and Final Determination) was sent by electronic mail with received receipt requested to the persons listed below.

Jimmy L. Rabon, CEMEX: jimmy.rabon@cemex.com
Charles Walz, CEMEX: charles.walz@cemex.com
Lillian DePrimo, CEMEX: lillianf.deprimo@cemex.com
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Ronni Moore, DEP OGC: ronni.moore@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)

FINAL DETERMINATION
CEMEX Cement, Inc.
North Brooksville Cement Plant
DEP File No. 0530010-030-AC

PERMITTEE

CEMEX Cement, Inc.
16301 Ponce De Leon Boulevard
Brooksville, Florida 34614-0849

PERMITTING AUTHORITY

Florida Department of Environmental Protection (Department)
Division of Air Resource Management
Bureau of Air Regulation, Special Projects Section
2600 Blair Stone Road, MS #5505
Tallahassee, Florida 32399-2400

PROJECT

DEP File No. 0530010-030-AC
CEMEX Cement Inc. North Brooksville Cement Plant
Best Available Retrofit Technology (BART) Project

The project is to satisfy the requirements of BART in Rule 62-296.340, Florida Administrative Code (F.A.C.) for the existing North Brooksville Cement Plant.

NOTICE AND PUBLICATION

On December 17, 2007, the Department provided the original written notice of its intent to issue a permit to CEMEX. After receiving an extension of time, CEMEX filed a Petition for Formal Administrative Proceeding on January 24, 2008. The primary objection was to a requirement in the draft permit to convert Kiln 1 to indirect firing.

The purpose of the condition was to insure compliance with CEMEX's proposal and the Department's draft BART determination of 2.0 pounds of nitrogen oxides per ton of clinker (2.0 lb/ton clinker). The company had advised during the middle of 2007 that without such a conversion they could not insure that compliance with the described limit was possible in conjunction with the existing selective non-catalytic reduction (SNCR) system.

In early 2008 CEMEX provided continuous emission monitoring data from the second half of 2007 indicating sustained achievement of less than 2.0 lb NO_x/ton clinker when using the existing semi-direct firing system and SNCR. Various meetings and telephone conferences were held to resolve some of the other issues, such as continuous monitoring requirements for sulfur dioxides (SO₂) and inclusion of selective catalytic reduction (SCR) in the BART permit as an option available to the company for the control of NO_x. A Settlement Agreement was prepared and on June 3, 2008 the assigned Administrative Law Judge of the Division of Administrative Hearings (DOAH) returned jurisdiction to the Department.

The Department distributed a new Notice of Intent to Issue a Revised Air Permit package on June 5, 2008. The applicant published the Public Notice of Intent to Issue Air Permit in the Hernando Today section of The Tampa Tribune on June 28, 2008. The Department received the proof of publication on July 11, 2008.

COMMENTS

No comments on the Revised Draft Permit were received from the public, the Department's Southwest District Office, the EPA Region 4 Office, the National Park Service, the U.S. Fish and Wildlife Service or the applicant.

CONCLUSION

The final action of the Department is to issue the permit with no changes compared with the draft permit.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF FINAL PERMIT

*In the Matter of an
Application for Air Permit by:*

Mr. Jimmy L. Rabon, Plant Manager
North Brooksville Cement Plant
CEMEX Cement, Inc.
16301 Ponce De Leon Boulevard
Brooksville, Florida 34614-0849

DEP File No. 0530010-030-AC
North Brooksville Cement Plant
Best Available Retrofit Technology (BART)
Portland Cement Line 1
Hernando County

Enclosed is the final BART air construction permit for CEMEX Cement, Inc. located in Hernando County at 16301 Ponce De Leon Boulevard northwest of Brooksville, Florida. The facility is an existing cement plant, which is identified by Standard Industrial Classification code No. 3241. The project is subject to the requirements of BART in Rule 62-296.340, Florida Administrative Code (F.A.C.) for the eligible units identified in the permit. This permit is issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this permit has the right to seek judicial review of it under Section 120.68, F.S. 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 (Department) 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.



for Trina L. Vielhauer, Chief
Bureau of Air Regulation

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

CEMEX Cement Company, Inc operates the Brooksville Cement Plant which is a portland cement facility (SIC 3241 Cement, Hydraulic). The plant currently consists of: two portland cement lines designated as Lines 1 and 2, including two Polysius GEPOL preheater kilns (Kilns 1 and 2); two clinker coolers; associated raw mills and finish mills; cement and clinker handling equipment; coal handling equipment; silos; air pollution control devices; raw material extraction and receiving facilities; and product shipping facilities.

FACILITY REGULATORY CLASSIFICATIONS

- 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 213, F.A.C.
- The facility is a major stationary source pursuant to Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

BART-ELIGIBLE EMISSIONS UNITS

This permitting action affects the following BART-eligible emissions units at the plant.

EU No.	Emission Unit Description
002	No.1 Kiln Feed System (Baghouse D-31) – Pyroprocessing/Raw Mill System
003	Cement Kiln No. 1 (Baghouse E-55) – Pyroprocessing/Raw Mill System
004	Cement Plant Clinker Cooler No. 1 (Baghouse F-18) – Clinker Handling System
005	Finish Mills No. 1 and No. 2 with two dust collectors (Baghouse G-23) – Finish Mill System
006	Clinker Storage Silo Nos. 1 & 2 (Baghouse F-31) – Clinker Handling System
008	Baghouse No. E-36 of Kiln No 1. Blending Silo No. 2 – Cement Products (is BART-eligible)
	Baghouse No. F-17 of Kiln No.1 Blending Silo No. 1 – Cement Products (is <u>not</u> BART-eligible)
009	Cement Plant STG Silos Dust Unit (Baghouse H-3) – Cement Products
011	Raw Material Storage Silos & Feed System (Baghouses C-11, C-11A)

CONTENTS

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Emissions Units Specific Conditions

Section 4. Appendices

Appendix A. Citation Formats

Appendix B. General Conditions

Appendix C. Standard Testing Requirements

Appendix D. Standard CEMS Requirements for SO₂ Monitoring

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The Permitting Authority for this project is the Bureau of Air Regulation (BAR) in the Division of Air Resource Management (DARM) of the Florida Department of Environmental Protection (FDEP), i.e., Department. The mailing address for the Bureau of Air Regulation is 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Air Resources Section of the FDEP Southwest District Office. The mailing address and phone number of the Southwest District Office are: 13051 N. Telecom Parkway, Temple Terrace, Florida 33637-0926 and (813) 632-7600.
3. Appendices: The following Appendices are attached as part of this permit: Appendix A (Citation Formats), Appendix B (General Conditions), Appendix C (Standard Testing Requirements), and Appendix D (Standard CEMS Requirements for SO₂ Monitoring).
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 the applicable provisions of: Chapter 403, F.S.; Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C.; and the applicable parts and subparts of Title 40, Code of Federal Regulations (CFR). Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. Title V Permit: This permit authorizes specific modifications and/or new construction on the affected emissions units as well as initial operation to determine compliance with conditions of this permit. A Title V operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a revised Title V permit **on or before December 31, 2013**. 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 each Compliance Authority.
[Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]
6. Records Retention: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least 5 years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request.
[Rule 62-213.440(1)(b)2, F.A.C.]
7. Annual Operating Report: The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by March 1st of each year. [Rule 62-210.370(3), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Emissions Units (EU-003 and 004)

This subsection addresses the following affected emissions units.

Emissions Units 003 and 004 (Kiln and Cooler No. 1)

Description: Dry preheater process kiln and clinker cooler systems employing the Polysius GEPOL preheater design.

Fuels: The kiln is limited to a fuel heat input of 300 million British thermal units (MMBtu) per hour. Allowable fuels include: coal, Nos. 2, 4, 5, and 6 fuel oils, natural gas, and on-site generated non-hazardous waste used oil and grease. Kiln No. 1 is also permitted to fire whole tire derived fuel (WTDF).

Capacity: The kiln is limited to 150 tons per hour (TPH) of preheater feed on a rolling 30-day average, with a maximum of 165 tons in any one hour, and a maximum annual limit of 1,300,000 tons per year (TPY).

Controls: A baghouse (E-55) is used on the kiln (EU 003) for the control of particulate matter (PM) emissions. A baghouse (F-18) is used to control the PM emissions from the cooler (EU 004). Raw material properties, chemical reactions in the kiln, absorption into the clinker, and combustion controls minimize emissions of nitrogen oxides (NO_x), sulfur dioxide (SO₂), carbon monoxide (CO), and volatile organic compounds (VOC). An aqueous ammonia (NH₃) injection system operating on the principle of selective non-catalytic reduction (SNCR) and a low NO_x burner (LNB) have been installed to augment NO_x control.

Monitors: Emissions of CO, NO_x, and SO₂ are continuously monitored on the kiln.

Stack Parameters: The stack for Kiln No. 1 has the following characteristics: stack height is 75 feet, exit diameter is 13 feet, exit temperature is 285 °F, and actual volumetric flow rate is approximately 315,000 acfm. There is a separate stack for Cooler No. 1 with the following characteristics: stack height is 50 feet, exit diameter is 10 feet, and exit temperature is 340°F.

1. Relation to Other Permits: The conditions of this permit subsection, unless otherwise noted, are in addition to those of any other air construction or operation permits.
[Rules 62-296.340 (BART), 62-4.030, 62-4.210, and 62-210.300(1)(b), F.A.C.]
2. BART Determinations: A determination of the BART was made for NO_x, SO₂ and PM/PM₁₀. To satisfy the BART requirements for these units the visible emissions limits act as surrogate standards for PM.
[Rule 62-296.340 (BART), F.A.C.].

CONTROL EQUIPMENT AND METHODS

3. NO_x Controls: To control emissions of nitrogen oxides (NO_x), the permittee shall implement one of the following strategies:
 - a. To control emissions of nitrogen oxides (NO_x), the permittee shall operate the installed SNCR system as previously authorized by Permits 0530010-026-AC and 0530010-34-AC.
 - b. In lieu of 3.a., the applicant is authorized to install a selective catalytic reduction (SCR) system between the preheater and the raw mill to augment or replace the existing SNCR system. In the event the applicant chooses to install the SCR, installation and compliance with limit of 1.2 lb/ton of kiln preheater feed must be completed by October 31, 2013. The SNCR system shall be used in the interim to meet the compliance dates and limits in Permits 0530010-026 and 0530010-34-AC. The injectors may be rearranged as needed to optimize the final configuration.

[Rule 62-296.340 (BART), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Emissions Units (EU-003 and 004)

4. SO₂ Controls: The present SO₂ control system consisting of dry alkali and lime scrubbing in the kiln system and limestone scrubbing in the raw mill constitutes BART for EU 003. The permittee shall continue to operate and maintain Kiln No. 1 as indicated in Permit 0530010-003-AC (PSD-FL-233) and the current Title V permit. No later than January 1, 2014, the permittee shall also comply with time-averaged limits and monitoring requirements discussed further below. [Rule 62-296.340 (BART), F.A.C.]
5. PM/PM₁₀ Standards:
- a. To control emissions of PM from Kiln No. 1 the permittee shall continue to operate and maintain baghouse E-55 as required by Permit 0530010-003-AC (PSD-FL-233) and the current Title V permit.
 - b. To control emissions of PM from Cooler No. 1 the permittee shall continue to operate and maintain baghouse F-18 as required by Permit 0530010-003-AC (PSD-FL-233) and the current Title V permit.
- [Rule 62-296.340 (BART), F.A.C.]
6. NO_x Continuous Emission Monitoring System (CEMS) Operation: In accordance with the requirements of Permit No. 0530010-026-AC, the permittee shall continue to properly calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) to measure and record emissions of NO_x. The emissions data collected with the CEMS shall be used to demonstrate compliance with the corresponding emissions standards. [Rules 62-296.340 (BART) and 62-4.070(3), F.A.C.; Permit 0530010-026-AC]
7. Continuous Opacity Monitoring System (COMS) for Kiln and Cooler No. 1: A COMS shall be used to demonstrate continuous compliance with the opacity standards and limitations specified in this section.
- a. In accordance with the NSPS (40 CFR 60, Subpart F), NESHAP (MACT 40 CFR 63, Subpart LLL) and the PSD-FL-233 requirements for cement kilns, the permittee shall continue to properly calibrate, maintain, and operate a COMS to measure and record opacity emissions.
 - b. The COMS shall comply with: 40 CFR 60, Appendix B, Performance Specification 1 (PS-1); 40 CFR 60 Subpart A, General Provisions; and, the requirements of MACT 40 CFR 63, Subpart LLL. Reports demonstrating compliance with PS-1 shall be submitted to the Department prior to January 1, 2014.
 - c. Effective January 1, 2014, the emissions data collected with the certified COMS shall be used to demonstrate continuous compliance with the opacity standards and limitations specified in this section.
 - d. Opacity shall be based on a 6-minute block average computed from at least one observation (measurement) every 15 seconds. An average value shall be computed and recorded at least every 60 seconds. For the COMS, the 6-minute block averages shall begin at the top of each hour.
- [Rules 62-296.340 (BART) and 62-4.070(3), F.A.C.]
8. SO₂ CEMS Installation: In accordance with the requirements in Appendix D (Standard CEMS Requirements for SO₂ Monitoring) of this permit, the permittee shall properly install, calibrate, maintain, and operate a CEMS to measure and record emissions of SO₂ from Kiln No. 1. The SO₂ CEMS shall satisfy all requirements of Appendix D no later than January 1, 2014. Effective January 1, 2014 the emissions data collected with the CEMS shall be used to demonstrate compliance with the corresponding emissions standards. [Rules 62-296.340 (BART) and 62-4.070(3), F.A.C.]

BART EMISSIONS STANDARDS

9. NO_x Emissions Standard: For purposes of BART, beginning January 1, 2014, NO_x emissions from Kiln No. 1 shall not exceed the following emissions standards:

Pollutant	Emission Limit	Averaging Time	Compliance Method	Basis
NO _x	2.0 lb/ton clinker	30-operating day rolling	CEMS	Applicant Request, PSD Avoidance and BART
	181.5 lb/hr (as NO ₂)			

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Emissions Units (EU-003 and 004)

{Note: These requirements are contained in Permits 0530010-026-AC and 0530010-34-AC and as of January 1, 2014 also constitute BART requirements}

[Applicant Request; Rule 62-296.340 (BART), F.A.C.; Permits 0530010-026-AC and 0530010-34-AC]

10. SO₂ Emissions Standard: For purposes of BART, beginning January 1, 2014, SO₂ emissions from Kiln No. 1 shall not exceed the following emissions standards.

Pollutant	Emission Limit	Averaging Time	Compliance Method	Basis
SO ₂	0.17 lb/ton clinker	24-operating hour rolling	CEMS	BART
	15 lb/hr @ 150 TPH of feed 16.5 lb/hr @ 165 TPH of feed			

[Rule 62-296.340 (BART), F.A.C.; Permits AC27-258571 and 0530010-003-AC (PSD-FL-233)]

11. PM/PM₁₀ Standards: For purposes of BART, beginning January 1, 2014, particulate matter emissions from Kiln No. 1 and Cooler No. 1 shall not exceed the following emissions standards as determined by EPA Method 5.

EU No.	Description	Emission Limit	lb/hr at 150 dry preheater feed	lb/hr at 165 TPH dry preheater feed
003	Kiln No. 1	0.31 lb/ton clinker	27.0	29.7
004	Cooler No. 1	0.15 lb/ton clinker	13.6	14.9

[Rule 62-296.340 (BART), F.A.C. and Permit 0530010-003-AC (PSD-FL-233)]

12. Visible Emissions Standards:

- a. Beginning January 1, 2014 and thereafter, visible emissions from Kiln No. 1 as measured by a COMS shall not exceed 10 % opacity based on a 6-minute average. Until that date, the opacity standards, including the monitoring and compliance requirements of presently applicable permits continue to apply to Kiln No. 1.
- b. Beginning January 1, 2014 and thereafter, visible emissions from Cooler No. 1 as measured by a COMS shall not exceed 10% opacity based on a 6-minute average. Until that date, the opacity standards, including the monitoring and compliance requirements of presently applicable permits continue to apply to Cooler No. 1.

[Rule 62-296.340 (BART), F.A.C. and Permit AC27-258571]

EXCESS EMISSIONS

13. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]
14. Excess Emissions Allowed: Unless specified by this permit or Title V Permit No. 0530010-015-AV, excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Emissions Units (EU-003 and 004)

(1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period. [Rule 62-210.700(1), F.A.C.]

15. Allowable Data Exclusions: Continuous monitoring data collected during periods of startup, shutdown, and malfunction may be excluded from the compliance demonstrations only in accordance with the following requirements, provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized. As provided by the authority in Rule 62-210.700(5), F.A.C., the following conditions replace the provisions in Rule 62-210.700(1), F.A.C.
- SO₂ Data* beginning January 1, 2014: Refer to Appendix D, Standard CEMS Requirements for SO₂ Monitoring.
 - NO_x Data*: Refer to Permit No. 0530010-026-AC.

All such reasonably preventable emissions from malfunctions shall be included in any CEMS compliance determinations. All valid emissions data (including data collected during startup, shutdown and malfunction) shall be used to report emissions for the Annual Operating Report. Additionally, the permittee shall submit the following notifications and reports:

Malfunction Notifications: If temporarily unable to comply with any condition of the permit due to breakdown of equipment (malfunction) or destruction by hazard of fire, wind or by other cause, the permittee shall immediately (within one working day) notify the Compliance Authority. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with Department rules. If requested by the Compliance Authority, the owner or operator shall submit a quarterly written report describing the malfunction.

SIP Quarterly Report: Within 30 days following the end of each calendar quarter, the permittee shall submit a report to the Compliance Authority summarizing: equipment malfunctions resulting in excluded CEMS data and/or excess emissions and the monitor availability of each CEMS.

[Rules 62-4.070(3), 62-4.130, 62-210.200, 62-340 (BART) and 62-210.700, F.A.C.]

MONITORING REQUIREMENTS

16. CEMS Compliance Demonstration: For the SO₂ CEMS required by this permit, the permittee shall comply with the monitoring provisions in Appendix D (Standard CEMS Requirements for SO₂ Monitoring), part of this permit. The requirements related to NO_x CEMS compliance demonstration for this kiln are stated in Permit 0530010-026-AC. This permit does not change or supersede any of those requirements. [Rules 62-296.340 (BART) and 62-4.070(3), F.A.C.]
17. COMS Compliance Demonstration: The requirements related to the opacity COMS compliance demonstration for Kiln and Cooler No.1 are stated in Specific Condition No. 7. [Rules 62-296.340 (BART) and 62-4.070(3), F.A.C.]

EMISSIONS PERFORMANCE TESTING

18. Test Methods: The following reference methods (or more recent versions) shall be used to conduct any required emissions tests.

Method	Description of Method and Comments
1 - 4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Determination of PM Emissions from Stationary Sources

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Emissions Units (EU-003 and 004)

Method	Description of Method and Comments
7E	Determination of NO _x Emissions from Stationary Sources
6C	Determination of SO ₂ Emissions from Stationary Sources
9	Visual Determination of Opacity from Stationary Sources
19	Determination of SO ₂ Removal Efficiency and PM, SO ₂ , and NO _x Emission Rates
201A	Determination of PM with a Mean Diameter of 10 Microns or Less (PM ₁₀)

EPA Methods 1, 2, 3, 4, and 19 shall be used as necessary to support the other test methods. The above methods are described in 40 CFR 60, Appendix A, which is adopted by reference in Rule 62-204.800, F.A.C. No other methods shall be used without prior written approval from the Permitting Authority. [Rules 62-204.800 and 62-297.100, F.A.C.; and 40 CFR 60, Appendix A]

19. **Standard Testing Requirements:** All required emissions tests shall be conducted in accordance with the requirements specified in Appendix C (Standard Testing Requirements) of this permit. [Rules 62-204.800 and 62-297.100, F.A.C.; and 40 CFR 60, Appendix A]
20. **Compliance Test Schedule:** In accordance with the following schedule, the permittee shall have stack tests conducted to demonstrate compliance with the emissions standards specified in this permit.
 - a. **Initial Tests:** On or before January 1, 2014, initial tests shall be conducted for PM/PM₁₀. [Rules 62-296.340 (BART) and 62-297.310(7)(a)1, F.A.C.]
 - b. **Annual Tests:** For purposes of BART, during each federal fiscal year following January 1, 2014 (October 1st to September 30th), tests shall be conducted for PM/PM₁₀. [Rules 62-296.340 (BART) and 62-297.310(7)(a)4, F.A.C.]
 - c. **Tests Prior to Renewal:** Within the 12-month period prior to renewing the Title V air operation permit, tests shall be conducted for PM/PM₁₀. [Rules 62-296.340 (BART) and 62-297.310(7)(a)3, F.A.C.]

No initial or annual tests or tests prior to renewal of the Title V Permit are necessary for NO_x and SO₂ since these pollutants are monitored by CEMS.

RECORDS AND REPORTS

21. **Plant Operation - Problems:** If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify the Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]
22. **Operation and Maintenance Requirements for BART Controls:** The requirements related to operation and maintenance requirements are stated in Title V permit 0530010-015-AV. This permit does not change or supersede any of those requirements. [Rule 62-4.070(3) F.A.C.]
23. **Baghouse Operation and Maintenance Requirements:** For the Kiln and Cooler baghouses the permittee shall have an operation and maintenance plan to address proper operation, parametric monitoring, and a schedule for conducting periodic inspections and preventive maintenance. Baghouse inspections and maintenance activities shall be recorded in a written log. The operation and maintenance logs shall be submitted to the Compliance Authority upon request. [Rule 62-4.070(3), and 40 CFR 63.1350, Subpart LLL]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Emissions Units (EU-003 and 004)

24. Control Equipment Monitoring Recordkeeping and Reports: The requirements related to control equipment monitoring for NO_x are stated in Permit 0530010-026-AC. This permit does not change or supersede any of those requirements. The requirements related to control equipment monitoring for SO₂ are provided in Appendix D (Standard CEMS requirements for SO₂ Monitoring), part of this permit. [Rule 62-296.340(3)(b)2, F.A.C.]
25. Records: The permittee shall comply with the records requirements stated in Title V Permit 0530010-015-AV and all the issued construction permits not yet incorporated in this Title V permit. [Rule 62-4.070(3) F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

B. Emissions Units (EU-002, 005, 006, 008, 009 and 011)

This permitting action affects the following BART-eligible emissions units at the plant.

EU No.	Emission Unit Description
002	No.1 Kiln Feed System (Baghouse D-31) – Pyroprocessing/Raw Mill System
005	Finish Mills #1 and #2 with two dust collectors (Baghouse G-23) – Finish Mill System
006	Clinker Storage Silo Nos. 1 & 2 (Baghouse F-31) – Clinker Handling System
008	Kiln No 1. Blending Silos [Baghouse Nos. (E-36)(silo 2)] – Cement Products
009	Cement Plant STG Silos Dust Unit (Baghouse H-3(silos 1-5)) – Cement Products
011	Raw Material Storage Silos (Baghouse C-11) – Raw Material Handling
011	Transfer Belt (Baghouse C-11A) – Raw Material Handling

1. **Relation to Other Permits:** The conditions of this permit subsection, unless otherwise noted, are in addition to those of any other air construction or operation permits.
[Rules 62-296.340 (BART), 62-4.030, 62-4.210, and 62-210.300(1)(b), F.A.C.]
2. **BART Determinations:** A determination of the BART was made for particulate matter (PM/PM₁₀). To satisfy the BART requirements for these units the visible emissions limits act as surrogate standards for PM.
[Rule 62-296.340 (BART), F.A.C.]

EQUIPMENT AND CONTROL TECHNOLOGY

3. **Equipment Description:** The permittee is authorized to operate, and maintain equipment needed for the handling, conveying and grinding of clinker from Line 1 storage silos together with gypsum, slag or limestone dust from their respective silos to make the final cement product. Equipment will include associated conveyors, and control equipment. [Rule 62-4.070(3) F.A.C.]
4. **Baghouse Controls:** Each emissions unit identified above shall be controlled by a baghouse system. Bags/filters in each baghouse control system shall be selected based on a PM design outlet specification of 0.01 grain (gr) per dry standard cubic foot (dscf) and a PM₁₀ design outlet specification of 0.007 gr/dscf. Compliance shall be demonstrated by maintaining the appropriate records and by complying with the mass emission limits, opacity limits and test requirements of Condition 6 of this section. Records may include, but are not limited to, Specifications stated in Purchase Orders, Specifications provided by Suppliers at the time of Delivery, and Records required by the Cemex O&M Plan.
[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.]
5. **Circumvention:** The permittee shall not circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.
[Rule 62-210.650, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

B. Emissions Units (EU-002, 005, 006, 008, 009 and 011)

EMISSIONS AND TESTING REQUIREMENTS

6. Particulate Matter (PM/PM₁₀) and Visible Emissions Standards (VE): For purposes of BART, no later than January 1, 2014, the permittee shall comply with the following PM/PM₁₀ and VE standards:

EU No.	Description	BART limit lb/hr (3-hr)	BART Opacity
002	No.1 Kiln Feed System (Baghouse D-31) Pyroprocessing / Raw Mill System	1.02	5%
005	Finish Mill No. 1 and No. 2 with two bag collectors (Baghouse G-23) – Finish Mill System	9.0 (for each mill)	5%
006	Clinker Storage Silo Nos. 1 & 2 (Baghouse F-31) Clinker Handling System	1.45	5%
008	Kiln No 1. Blending Silos [Baghouse No. (E-36)(silo 2)] Cement Products	1.02	5%
009	Cement Plant Storage Silos Dust Unit [Baghouse No. (H-3)(silos 1-5)] – Cement Products	5.0	5%
011	Raw Material Storage Silos (Baghouse C-11) – Raw Material Handling	1.29	5%
	Transfer Belt (Baghouse C-11A) – Raw Material Handling	0.86	5%

The presently applicable visible emissions standard of 5% opacity and testing requirements in lieu of stack testing in the Title V permit continue to apply. Exceedance of the 5% opacity limit shall be deemed an exceedance of this permit condition and not necessarily an exceedance of the opacity limitations given in 40 CFR 63, Subpart LLL. [Rules 62-4.070(3); 62-297.620(4) F.A.C. and 40 CFR 63.1348]

7. Testing and Compliance Demonstrations: During each federal fiscal year (October 1st to September 30th), the permittee shall conduct visible emissions tests on each baghouse exhaust in accordance with EPA Method 9 to demonstrate compliance with the opacity standard. This method is described in 40 CFR 60, Appendix A, which is adopted by reference in Rule 62-204.800, F.A.C. Initial compliance tests shall be conducted during federal fiscal year 2012/2013 and a test report demonstrating compliance shall be submitted before October 1, 2013. [Rules 62-4.070(3), 62-204.800, 62-296.340(3)(b)2, 62-297.310(7)(a)4, F.A.C.; and 40 CFR 60, Appendix A, Method 9 and 40 CFR 63.1349(b)(2)]
8. Periodic Monitoring Requirements: Each affected unit subject to an opacity standard shall be periodically monitored using the procedures described in 40 CFR 63.1350(a) (4) (i) through (vii) to ensure compliance with the above emissions limits. [Rule 62-4.070(3) and 40 CFR, 63.1350, Subpart LLL]
9. Test Methods: Any required tests shall be performed in accordance with the following reference methods and the applicable requirements of Appendix C of this permit, and the applicable NESHAP provisions. [Rule 62-297.310(7)(a)9, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

B. Emissions Units (EU-002, 005, 006, 008, 009 and 011)

Method	Description of Method and Comments
1 - 4	Determination of Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content. Methods shall be performed as necessary to support other methods.
5	Determination Particulate Matter from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
22	Visual Determination of Fugitive Emissions From Material Sources

REPORTING AND RECORD KEEPING

10. Baghouse Operation and Maintenance Requirements: For each baghouse the permittee shall have an operation and maintenance plan to address proper operation, parametric monitoring, and a schedule for conducting periodic inspections and preventive maintenance. Baghouse inspections and maintenance activities shall be recorded in a written log. The operation and maintenance logs shall be submitted to the Compliance Authority upon request. [Rule 62-4.070(3), and 40 CFR 63.1350, Subpart LLL]
11. Test Reports: For each test conducted, the permittee shall file a test report including the information specified in Rule 62-297.310(8), F.A.C. with the compliance authority no later than 45 days after the last run of each test is completed. [Rules 62-297.310(8), F.A.C.]
12. Records: The permittee shall comply with the records requirements stated in Title V Permit 0530010-015-AV and all the issued construction permits not yet incorporated in this Title V permit. [Rule 62-4.070(3) F.A.C]

Livingston, Sylvia

From: Livingston, Sylvia
Sent: Thursday, August 14, 2008 4:24 PM
To: ✓ jimmy.rabon@cemex.com; ✓ charles.walz@cemex.com; ✓ lillianf.deprimo@cemex.com
Cc: ✓ Nasca, Mara; ✓ mlee@kooglerassociates.com; ✓ forney.kathleen@epa.gov;
✓ dee_morse@nps.gov; ✓ atkinson@ohfc.com; ✓ sfernandez@ohfc.com; ✓ Moore, Ronni; Gibson, Victoria; Heron, Teresa; Linero, Alvaro
Subject: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

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Facility Name: CEMEX North Brooksville Cement Plant
Project Number: 0530010-030-AC
Permit Status: FINAL
Permit Activity: CONSTRUCTION/ Best Available Retrofit Technology (BART)
Facility County: Hernando

Processor: Teresa Heron/ Al Linero

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Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)
850/921-9506

Livingston, Sylvia

From: Charles E Walz [charles.walz@cemex.com]
Sent: Friday, August 22, 2008 2:53 PM
To: Livingston, Sylvia
Cc: Jimmy L Rabon
Subject: Re: FW: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

We have received

Thanks



Charles E Walz

Environmental Manager - Brooksville Plant - United States of America

Office : +1352(799)2011 , Fax: +1352(754)9836 , Mobile: +1352(279)1415

Address: 16301 Ponce De Leon Blvd Brooksville, Florida 34614

E-Mail: Charles.Walz@CEMEX.com

www.cemex.com

"Livingston, Sylvia" <Sylvia.Livingston@dep.state.fl.us>

08/22/2008 02:36 PM

To Jimmy L Rabon/US/Cemex@CEMEX, Charles E Walz/US/Cemex@CEMEX

cc

Subject FW: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

I have not received notice of acceptance of the attached document regarding permit 0530010-030-AC. Please reply to this email as verification of receipt of the attached document.

Thanks,

Sylvia Livingston
Bureau of Air Regulation
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850/921-9506

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10/20/2008

Livingston, Sylvia

From: Lillian F Deprimo [lillianf.deprimo@cemex.com]

Sent: Friday, August 15, 2008 9:31 AM

To: Livingston, Sylvia

Subject: Re: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC



Lillian DePrimo

Director, Environmental - Environmental - United States of America

Office : +011(865)541-5506 , Fax: +011(865)541-5595 , Mobile: +011(865)719-9925

Address: 840 Gessner Houston, Texas 77024

e-Mail: lillianf.deprimo@cemex.com

www.cemexusa.com

8/19/2008

Livingston, Sylvia

From: Max Lee [mlee@kooglerassociates.com]
Sent: Saturday, August 16, 2008 5:12 PM
To: Livingston, Sylvia
Subject: RE: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

From: Livingston, Sylvia [mailto:Sylvia.Livingston@dep.state.fl.us]
Sent: Thursday, August 14, 2008 4:24 PM
To: jimmy.rabon@cemex.com; charles.walz@cemex.com; lillianf.deprimo@cemex.com
Cc: Nasca, Mara; mlee@kooglerassociates.com; forney.kathleen@epa.gov; dee_morse@nps.gov; tatkinson@ohfc.com; sfernandez@ohfc.com; Moore, Ronni; Gibson, Victoria; Heron, Teresa; Linero, Alvaro
Subject: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

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Facility Name: CEMEX North Brooksville Cement Plant
Project Number: 0530010-030-AC
Permit Status: FINAL
Permit Activity: CONSTRUCTION/ Best Available Retrofit Technology (BART)
Facility County: Hernando
Processor: Teresa Heron/ Al Linero

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Sylvia Livingston
Bureau of Air Regulation
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8/19/2008

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_____ NOD32 3322 (20080803) Information _____

This message was checked by NOD32 antivirus system.

<http://www.eset.com>

Livingston, Sylvia

From: Moore, Ronni
Sent: Monday, August 25, 2008 3:32 PM
To: Livingston, Sylvia
Subject: RE: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

I received it, Sylvia. Thanks.

Ronda L. Moore
Assistant General Counsel



Please consider the environment before printing this email.

From: Livingston, Sylvia
Sent: Monday, August 25, 2008 2:37 PM
To: Moore, Ronni
Subject: FW: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

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Thanks,

Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)
850/921-9506

From: Livingston, Sylvia
Sent: Thursday, August 14, 2008 4:24 PM
To: 'jimmy.rabon@cemex.com'; 'charles.walz@cemex.com'; 'lillianf.deprimo@cemex.com'
Cc: Nasca, Mara; 'mlee@kooglerassociates.com'; 'forney.kathleen@epa.gov'; 'dee_morse@nps.gov'; 'tatkinson@ohfc.com'; 'sfernandez@ohfc.com'; Moore, Ronni; Gibson, Victoria; Heron, Teresa; Linero, Alvaro
Subject: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

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Facility Name: CEMEX North Brooksville Cement Plant
Project Number: 0530010-030-AC

Permit Status: FINAL

Permit Activity: CONSTRUCTION/ Best Available Retrofit Technology (BART)

Facility County: Hernando

Processor: Teresa Heron/ Al Linero

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Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)
850/921-9506

Livingston, Sylvia

From: Tim Atkinson [tatkinson@ohfc.com]
Sent: Tuesday, August 26, 2008 11:29 AM
To: Livingston, Sylvia
Cc: Segundo J. Fernandez
Subject: RE: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

Thank you, Tim

Timothy P. Atkinson

Oertel, Fernandez, Cole & Bryant, P.A.
PO Box 1110
Tallahassee, FL 32302
850.521.0700-w
850-521.0720-f
850.544.5304-m

From: Livingston, Sylvia [mailto:Sylvia.Livingston@dep.state.fl.us]
Sent: Monday, August 25, 2008 2:43 PM
To: Segundo J. Fernandez; Tim Atkinson
Subject: FW: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

I have not received notice of acceptance of the attached document regarding permit 0530010-030-AC. Please reply to this email as verification of receipt of the attached document.

Thanks,

Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)
850/921-9506

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From: Livingston, Sylvia
Sent: Thursday, August 14, 2008 4:24 PM
To: 'jimmy.rabon@cemex.com'; 'charles.walz@cemex.com'; 'lillianf.deprimo@cemex.com'
Cc: Nasca, Mara; 'mlee@kooglerassociates.com'; 'fomey.kathleen@epa.gov'; 'dee_morse@nps.gov'; 'tatkinson@ohfc.com'; 'sfernandez@ohfc.com'; Moore, Ronni; Gibson, Victoria; Heron, Teresa; Linero, Alvaro
Subject: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

10/20/2008

Livingston, Sylvia

From: Nasca, Mara
Sent: Thursday, August 14, 2008 5:17 PM
To: Livingston, Sylvia
Subject: RE: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

Thanks Sylvia...have a great evening

From: Livingston, Sylvia
Sent: Thursday, August 14, 2008 4:24 PM
To: 'jimmy.rabon@cemex.com'; 'charles.walz@cemex.com'; 'lillianf.deprimo@cemex.com'
Cc: Nasca, Mara; 'mlee@kooglerassociates.com'; 'forney.kathleen@epa.gov'; 'dee_morse@nps.gov'; 'tatkenson@ohfc.com'; 'sfernandez@ohfc.com'; Moore, Ronni; Gibson, Victoria; Heron, Teresa; Linero, Alvaro
Subject: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

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Facility Name: CEMEX North Brooksville Cement Plant
Project Number: 0530010-030-AC
Permit Status: FINAL
Permit Activity: CONSTRUCTION/ Best Available Retrofit Technology (BART)
Facility County: Hernando

Processor: Teresa Heron/ Al Linero

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Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)
850/921-9506

Livingston, Sylvia

From: Dee_Morse@nps.gov
Sent: Thursday, August 14, 2008 5:08 PM
To: Livingston, Sylvia
Subject: Re: CEMEX Best Available Retrofit Technology (BART) Permit; 0530010-030-AC

Documents received.

Dee Morse
Environmental Protection Specialist
Air Resources Division
Natural Resource Program Center
National Park Service
Phone: 303 969-2817
Fax: 303 969-2822
e-mail: dee_morse@nps.gov

"Livingston,
Sylvia"
<Sylvia.Livingston@dep.state.fl.us
>

08/14/2008 04:24
PM AST

<jimmy.rabon@cemex.com>,
<charles.walz@cemex.com>,
<lillianf.deprimo@cemex.com>

To

cc

"Nasca, Mara"
<Mara.Nasca@dep.state.fl.us>,
<mlee@kooglerassociates.com>,
<forney.kathleen@epa.gov>,
<dee_morse@nps.gov>,
<tatkinson@ohfc.com>,
<sfernandez@ohfc.com>, "Moore,
Ronni"
<Ronni.Moore@dep.state.fl.us>,
"Gibson, Victoria"
<Victoria.Gibson@dep.state.fl.us>,
"Heron, Teresa"
<Teresa.Heron@dep.state.fl.us>,
"Linero, Alvaro"
<Alvaro.Linero@dep.state.fl.us>

Subject

CEMEX Best Available Retrofit
Technology (BART) Permit;
0530010-030-AC

Dear Sir/Madam:

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Facility Name: CEMEX North Brooksville Cement Plant Project Number: 0530010-030-AC Permit

Status: FINAL Permit Activity: CONSTRUCTION/ Best Available Retrofit Technology (BART)

Facility County: Hernando

Processor: Teresa Heron/ Al Linero

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Engineer-of-Record. If you have any problems opening the documents or

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Sylvia Livingston

Bureau of Air Regulation

Division of Air Resource Management (DARM)

850/921-9506

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Florida Department of Environmental Protection

Memorandum

TO: Joseph Kahn, Director

THROUGH: Trina Vielhauer, Chief, Bureau of Air Regulation
Al Linero, Special Projects Section *AL*

FROM: Teresa Heron *T.H.*

DATE: August 11, 2008

SUBJECT: Final Air Permit No. 0530010-030-AC
CEMEX North Brooksville Cement Plant
BART Project

The Final Permit for this project is attached for your approval and signature. The project is subject to BART requirements. The attached Final Determination identifies the resolution of matters related to issuance of the original draft permit and summarizes the publication process related to the revised draft permit. No comments were received.

We recommend your approval of the attached Final Permit for this project.

Attachments