

# Memorandum

# Florida Department of Environmental Protection

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TO: Jeff Koerner, Office of Permitting and Compliance  
THROUGH: Jon Holtom, Power Plant Group  
FROM: Tom Cascio  
DATE: October 24, 2011  
SUBJECT: Draft/Proposed Permit Renewal No. 0530021-029-AV  
CEMEX Construction Materials Florida, LLC  
Central Power & Lime, LLC

Attached for your review are the following items:

- Written Notice of Intent to Issue Air Permit;
- Public Notice of Intent to Issue Air Permit;
- Statement of Basis;
- Draft/proposed Title V air operation permit renewal; and,
- P.E. Certification.

This permitting action is to renew the Title V air operation permit for the CEMEX Brooksville South Cement Plant and the Central Power & Lime Plant. The Statement of Basis provides a summary of the project and the rationale for issuance. There are no significant changes to the current permit. The renewal permit incorporates the latest approved format. The renewal permit also incorporates changes to specific conditions made by the two recent air construction permits 0530021-030-AC and 0530021-033-AC. The P.E. certification briefly summarizes the proposed project.

The application was received on November 12, 2010. A request for additional information (RAI) was sent on January 6, 2011. A response was received on August 9, 2011, which made the application complete. Day 90 is November 7, 2011.

I recommend your approval of the attached draft/proposed Title V air operation permit renewal.

Attachments

**P.E. CERTIFICATION STATEMENT**

**PERMITTEE**

CEMEX Construction Materials Florida, LLC  
Central Power & Lime, LLC  
10311 Cement Plant Road  
Brooksville, Florida 34601

Project No. 0530021-029-AV  
Facility ID No. 00530021  
CEMEX Brooksville South Cement  
Plant and Central Power & Lime Plant  
Title V Air Operation Permit Renewal  
Hernando County, Florida

**PROJECT DESCRIPTION**

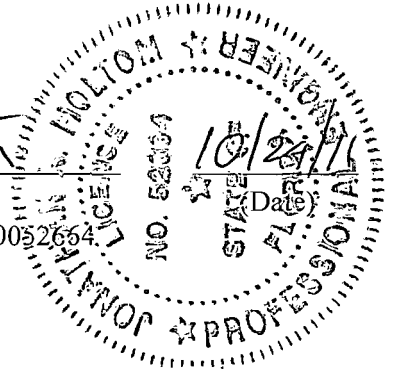
The main purpose of this project is to renew Title V air operation permit No. 0530021-011-AV. This renewal reflects a major restructuring of the most recent Title V air permit revision (i.e., 0530021-021-AV). Among the changes that were made as part of this renewal process included reformatting, removal of obsolete sections and specific conditions, replacement of TV-6 with new Appendix TV and streamlining of emissions unit sections by moving common conditions to the new appendices. The renewal permit also incorporates changes to specific conditions made by the two recent air construction permits 0530021-030-AC and 0530021-033-AC.

*I HEREBY CERTIFY that the air pollution control engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify any other aspects of the proposal (including, but not limited to, the electrical, mechanical, structural, hydrological, geological, and meteorological features).*

This review was conducted by Tom Cascio under my responsible supervision.



Jon K. Holtom, P.E.  
Registration Number 0052664





# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

*Electronic Mail – Received Receipt Requested*

Mr. Jim Daniel, Cement Plant Manager ([jdaniel@cemexusa.com](mailto:jdaniel@cemexusa.com))  
CEMEX Construction Materials Florida, LLC  
Mr. Terry Woodard, Power Plant Manager ([wwoodard@deltapowerservices.com](mailto:wwoodard@deltapowerservices.com))  
Central Power & Lime, LLC  
10311 Cement Plant Road  
Brooksville, Florida 34601

Re: Permit No. 0530021-029-AV  
CEMEX Brooksville South Cement Plant and Central Power & Lime Plant  
Title V Permit Renewal

Dear Mr. Daniel and Mr. Woodard:

Enclosed is the draft/proposed permit package to renew the Title V air operation permit for the CEMEX Brooksville South Cement Plant and the Central Power & Lime (CP&L) Plant. This facility is located in Hernando County at 10311 Cement Plant Road, Brooksville, Florida. The permit package includes the following documents:

- The Statement of Basis, which summarizes the facility, the equipment, the primary rule applicability, and the changes since the last Title V renewal.
- The draft/proposed Title V air operation permit renewal, which includes the specific permit conditions that regulate the emissions units covered by the proposed project.
- The Written Notice of Intent to Issue Air Permit provides important information regarding: the Permitting Authority's intent to issue an air permit for the proposed project; the requirements for publishing a Public Notice of the Permitting Authority's intent to issue an air permit; the procedures for submitting comments on the draft/proposed permit; the process for filing a petition for an administrative hearing; and the availability of mediation.
- The Public Notice of Intent to Issue Air Permit is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The Public Notice of Intent to Issue Title V Air Permit must be published as soon as possible and the proof of publication must be provided to the Department within seven days of the date of publication. Because this permit is being processed as a combined draft/proposed permit in order to reduce processing time, a duplicate copy of the proof of publication must also be transmitted by electronic mail within seven days of the date of publication to Ms. Ana Oquendo at EPA Region 4 at the following address: [oquendo.ana@epamail.epa.gov](mailto:oquendo.ana@epamail.epa.gov).

If you have any questions, please contact the Project Engineer, Tom Cascio, by telephone at 850-717-9077 or by email at [Tom.Cascio@dep.state.fl.us](mailto:Tom.Cascio@dep.state.fl.us).

Sincerely,

Jeffery F. Koerner, Program Administrator  
Office of Permitting and Compliance  
Division of Air Resource Management

10-27-11  
Date

Enclosures  
JFK/jkh/tbc

**WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT**

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*In the Matter of an*

*Application for Title V Air Operation Permit by:*

CEMEX Construction Materials Florida, LLC  
Central Power & Lime, LLC  
10311 Cement Plant Road  
Brooksville, Florida 34601

Permit No. 0530021-029-AV  
Facility ID No. 0530021  
CEMEX Brooksville South Cement Plant  
Central Power & Lime Plant  
Title V Permit Renewal  
Hernando County, Florida

*Responsible Officials:*

Mr. James S. Daniel, Cement Plant Manager  
Mr. Terry Woodard, Power Plant Manager

**Facility Location:** CEMEX Construction Materials Florida, LLC, and Central Power & Lime, LLC, operate the CEMEX Brooksville South Cement Plant and the Central Power & Lime Plant, respectively, which are located in Hernando County at 10311 Cement Plant Road, Brooksville, Florida.

**Project:** The purpose of this project is to renew Title V air operation permit No. 0530021-011-AV. Details of the project are provided in the application and the enclosed Statement of Basis.

**Permitting Authority:** Applications for Title V air operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-213 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and a Title V air operation permit is required to operate the facility. The Division of Air Resource Management is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/717-9000.

**Project File:** A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the address indicated above for the Permitting Authority. The complete project file includes the draft/proposed permit, the Statement of Basis, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the draft/proposed permit by visiting the following website: <http://www.dep.state.fl.us/air/emission/apds/default.asp> and entering the permit number shown above. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

**Notice of Intent to Issue Permit:** The Permitting Authority gives notice of its intent to issue a Title V air operation permit renewal to the applicant for the project described above. The applicant has provided reasonable assurance that continued operation of the existing equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft/proposed permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

**Public Notice:** Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S. in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at the above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to

## WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

**Comments:** The Permitting Authority will accept written comments concerning the draft/proposed Title V air operation permit for a period of 30 days from the date of publication of the Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location in the Florida Administrative Weekly (FAW). If a public meeting is requested within the 30-day comment period and conducted by the Permitting Authority, any oral and written comments received during the public meeting will also be considered by the Permitting Authority. If timely received written comments or comments received at a public meeting result in a significant change to the draft/proposed permit, the Permitting Authority shall issue a revised draft/proposed permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection. For additional information, contact the Permitting Authority at the above address or phone number.

**Petitions:** A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written

## WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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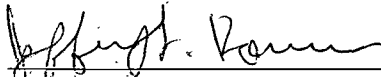
Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

**Mediation:** Mediation is not available in this proceeding.

**EPA Review:** EPA has agreed to treat the draft/proposed Title V air operation permit as a proposed Title V air operation permit and to perform its 45-day review provided by the law and regulations concurrently with the public comment period, provided that the applicant also transmits an electronic copy of the required proof of publication directly to EPA at the following email address: [oguendo.ana@epamail.epa.gov](mailto:oguendo.ana@epamail.epa.gov). Although EPA's 45-day review period will be performed concurrently with the public comment period, the deadline for submitting a citizen petition to object to the EPA Administrator will be determined as if EPA's 45-day review period is performed after the public comment period has ended. The final Title V air operation permit will be issued after the conclusion of the 45-day EPA review period so long as no adverse comments are received that result in a different decision or significant change of terms or conditions. The status regarding EPA's 45-day review of this project and the deadline for submitting a citizen petition can be found at the following website address: <http://www.epa.gov/region4/air/permits/Florida.htm>.

**Objections:** Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

Executed in Tallahassee, Florida.



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Jeffery F. Koerner, Program Administrator  
Office of Permitting and Compliance  
Division of Air Resource Management

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue Title V Air Operation Permit Renewal (including the Public Notice, the Statement of Basis, and the draft/proposed permit), or a link to these documents available electronically on a publicly accessible server, was sent by electronic mail with received receipt requested before the close of business on 10/28/11 to the persons listed below.

- Ms. Cindy Zhang-Torres, Southwest District Office: [cindy.zhang-torres@dep.state.fl.us](mailto:cindy.zhang-torres@dep.state.fl.us)
- Dr. Maxwell R. Lee, P.E., Koogler and Associates, Inc.: [mlee@kooglerassociates.com](mailto:mlee@kooglerassociates.com)
- Ms. Katy Forney, EPA Region 4: [forney.kathleen@epa.gov](mailto:forney.kathleen@epa.gov)
- Ms. Ana Oquendo, US EPA Region 4: [oquendo.ana@epa.gov](mailto:oquendo.ana@epa.gov)
- Ms. Barbara Friday, DEP Office of Permitting and Compliance: [barbara.friday@dep.state.fl.us](mailto:barbara.friday@dep.state.fl.us)
- Ms. Cindy Mulkey, DEP Siting: [cindy.mulkey@dep.state.fl.us](mailto:cindy.mulkey@dep.state.fl.us)
- Ms. Lynn Searce, DEP Office of Permitting and Compliance: [lynn.searce@dep.state.fl.us](mailto:lynn.searce@dep.state.fl.us)
- Ms. Anne Harvey, Earthjustice: [aharvey@earthjustice.org](mailto:aharvey@earthjustice.org)

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.

Barbara J. Friday 10/28/11  
(Clerk) (Date)

## PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

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Florida Department of Environmental Protection  
Division of Air Resource Management, Office of Permitting and Compliance  
Draft/Proposed Permit No. 0530021-029-AV  
CEMEX Construction Materials Florida, LLC, CEMEX Brooksville South Cement Plant  
Central Power & Lime, LLC, Central Power & Lime Plant  
Hernando County, Florida

**Applicant:** The applicants for this project are CEMEX Construction Materials Florida, LLC, and Central Power & Lime, LLC. The applicants' responsible officials and mailing address are: Mr. Jim Daniel, Cement Plant Manager, CEMEX Construction Materials Florida, LLC, and Mr. Terry Woodard, Power Plant Manager, Central Power & Lime, LLC, 10311 Cement Plant Road, Brooksville, Florida 34601.

**Facility Location:** The applicants operate the existing CEMEX Brooksville South Cement Plant and the Central Power & Lime Plant, respectively, which are located in Hernando County at 10311 Cement Plant Road in Brooksville, Florida.

**Project:** The applicant applied on November 12, 2010, to the Department for a Title V air operation permit renewal. This is a renewal of Title V air operation permit No. 0530021-011-AV. There are no significant changes to the current permit. The renewal permit incorporates the latest approved format. The existing facility consists of two Portland cement manufacturing lines, a 150 megawatt (MW) power plant, a coal yard and all the required auxiliary equipment. The applicants operate this existing integrated site as a single Title V facility. Portland Cement Line 1 includes an in-line kiln/raw mill, clinker cooler and associated process equipment. This line shares a common baghouse and stack with the power plant. Portland Cement Line 2 includes a raw mill system, a dry process preheater/precalciner kiln system, clinker handling system, finish grinding operations, two cement loadout silos, and coal handling and grinding operations.

**Permitting Authority:** Applications for Title V air operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-213, of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and a Title V air operation permit is required to operate the facility. The Division of Air Resource Management is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/717-9000.

**Project File:** A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the address indicated above for the Permitting Authority. The complete project file includes the draft/proposed permit, the Statement of Basis, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the draft/proposed permit by visiting the following website: <http://www.dep.state.fl.us/air/emission/apds/default.asp> and entering the permit number shown above. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

**Notice of Intent to Issue Permit:** The Permitting Authority gives notice of its intent to issue a renewed Title V air operation permit to the applicant for the project described above. The applicant has provided reasonable assurance that continued operation of the existing equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft/proposed permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

**Comments:** The Permitting Authority will accept written comments concerning the draft/proposed Title V air operation permit for a period of 30 days from the date of publication of the Public Notice. Written comments

(Public Notice to be Published in the Newspaper)



## **PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT**

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must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location in the Florida Administrative Weekly (FAW). If a public meeting is requested within the 30-day comment period and conducted by the Permitting Authority, any oral and written comments received during the public meeting will also be considered by the Permitting Authority. If timely received written comments or comments received at a public meeting result in a significant change to the draft/proposed permit, the Permitting Authority shall issue a revised draft/proposed permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection. For additional information, contact the Permitting Authority at the above address or phone number.

**Petitions:** A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of the Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address and telephone number of the petitioner; the name address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial rights will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

**Mediation:** Mediation is not available for this proceeding.

**EPA Review:** EPA has agreed to treat the draft/proposed Title V air operation permit as a proposed Title V air operation permit and to perform its 45-day review provided by the law and regulations concurrently with the

**(Public Notice to be Published in the Newspaper)**

## PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

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public comment period, provided that the applicant also transmits an electronic copy of the required proof of publication directly to EPA at the following email address: [ouquendo.ana@epamail.epa.gov](mailto:ouquendo.ana@epamail.epa.gov). Although EPA's 45-day review period will be performed concurrently with the public comment period, the deadline for submitting a citizen petition to object to the EPA Administrator will be determined as if EPA's 45-day review period is performed after the public comment period has ended. The final Title V air operation permit will be issued after the conclusion of the 45-day EPA review period so long as no adverse comments are received that result in a different decision or significant change of terms or conditions. The status regarding EPA's 45-day review of this project and the deadline for submitting a citizen petition can be found at the following website address: <http://www.epa.gov/region4/air/permits/Florida.htm>.

**Objections:** Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

## STATEMENT OF BASIS

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Title V Air Operation Permit Renewal  
Permit No. 0530021-029-AV

### APPLICANT

The applicants for this project are CEMEX Construction Materials Florida, LLC, and Central Power & Lime, LLC. The applicants' responsible officials and mailing address are: Mr. Jim Daniel, Cement Plant Manager, CEMEX Construction Materials Florida, LLC, and Mr. Terry Woodard, Power Plant Manager, Central Power and Lime, LLC, 10311 Cement Plant Road, Brooksville, Florida 34601.

### FACILITY DESCRIPTION

The applicants operate the existing CEMEX Brooksville South Cement Plant and the Central Power & Lime Plant, which are located in Hernando County at 10311 Cement Plant Road, Brooksville, Florida.

The facility is an integrated facility that includes two Portland cement manufacturing lines, a 150 megawatt (MW) power plant, a coal yard and all the required auxiliary equipment. The applicants operate this existing integrated site as a single Title V facility. Portland Cement Line 1 includes an in-line kiln/raw mill, clinker cooler and associated process equipment. This line shares a common baghouse and stack with the power plant. All of the materials handling activities are controlled by fabric filter baghouse control systems, except for the Clinker Receiving/Handling System and the coal yard activities. All fly ash handling systems (including transfer and silo storage) are totally enclosed and vented (including pneumatic system exhaust) through fabric filters.

Portland Cement Line 2 includes a raw mill system, a dry process preheater/precalciner kiln system, clinker handling system, finish grinding operations, two cement loadout silos, and coal handling and grinding operations. Nitrogen oxides (NO<sub>x</sub>) emissions are controlled by the use of Selective Non-catalytic Reduction (SNCR) technology. Sulfur dioxide (SO<sub>2</sub>) emissions are controlled by use of low sulfur raw materials and inherent scrubbing by finely divided lime in the calciner and limestone in the raw mill. Carbon monoxide (CO) and volatile organic compounds (VOC) emissions are controlled by promoting complete combustion in the kiln and calciner and minimizing carbon and oily content of raw materials. Particulate matter (PM/PM<sub>10</sub>) from the pyroprocessing system and the clinker cooler are controlled by large fabric filter baghouses. Mercury emissions are controlled by material balance with a minimum of quarterly analysis of raw material samples and making and maintaining records of monthly and rolling 12-month mercury throughput. All of the materials handling activities particulate matter emissions are controlled by fabric filters. Continuous monitors are operated for opacity, NO<sub>x</sub>, SO<sub>2</sub>, and oxygen (O<sub>2</sub>).

The Central Power & Lime power boiler is rated at 1,850 MMBtu/hr (3-hour average) and is allowed to generate a net delivered 150 MW. The primary fuel burned is coal, with new distillate No. 2 fuel oil used for startup. A dry limestone injection scrubbing system is used to control sulfur dioxide (SO<sub>2</sub>) emissions from the power boiler; and, particulate matter is collected in the common baghouse fabric filter system that also serves Cement Line 1.

This facility also includes miscellaneous unregulated/insignificant emissions units and/or activities.

### PROJECT DESCRIPTION

The purpose of this permitting project is to renew the existing Title V permit for the above referenced facility.

### PROCESSING SCHEDULE AND RELATED DOCUMENTS

Initial Title V Air Operation Permit issued October 18, 2000.

Application for a Title V Air Operation Permit Renewal received November 12, 2010.

Additional Information Request dated January 6, 2011.

Title V Air Operation Permit Revision issued July 18, 2011.

Additional information response received August 9, 2011.

### PRIMARY REGULATORY REQUIREMENTS

Title III: The facility is identified as a major source of hazardous air pollutants (HAP).

## STATEMENT OF BASIS

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Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: The facility is a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility operates units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

NESHAP: The facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

CAIR: The facility is subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

Siting: Unit 018 was originally certified pursuant to the power plant siting provisions of Chapter 62-17, F.A.C.

CAM: Compliance Assurance Monitoring (CAM) applies to Portland Cement Lines 1 (E.U. Nos. 018 and 020) and 2 (E.U. 044), and to some of the miscellaneous material handling and transfer points for Line 2 (E.U. Nos. 046, 047, 048, 050, 054, 057, 058 and 059) for the controlled emissions of particulate matter. The controlled emissions of sulfur dioxide and nitrogen oxides are not subject to CAM due to the use of continuous emissions monitors as the compliance determination method. Minor Line 2 material handling points for the Filter Dust Bins, Finish Mill additives, Fine Coal Bin and Packaging Plant (E.U. Nos. 045, 051, 061 and 062) are not subject to CAM because their pre-controlled potential emissions are less than major source levels. The Finish Mill and Air Heater and the Coal Mill (E.U. Nos. 052 and 060) are not subject to CAM because they meet the requirements for the Part 64 exemptions as inherent process equipment. The remainder of the emission points are exempt from CAM because they are regulated under post-1990 Federal standards pursuant to 40 CFR 63, Subpart LLL.

### PROJECT REVIEW

This renewal reflects a major restructuring of the most recent Title V air permit revision (i.e., permit No. 0530021-021-AV). Among the changes that were made as part of this renewal process included reformatting, removal of obsolete sections and specific conditions, replacement of Appendix TV-6 with new Appendices RR, TR and TV, and streamlining of emissions unit sections by moving common conditions to the new appendices. The renewal permit also incorporates changes to specific conditions made through the recent issuance of air construction permit Nos. 0530021-030-AC (which authorized the installation of a baghouse at the Kiln No. 1 clinker silo discharge) and 0530021-033-AC (which authorized a production rate increase for Cement Line 2). Changes authorized by these permits (as detailed in their respective issuance documents) have been incorporated into this renewal.

### CONCLUSION

This project renews Title V air operation permit No. 0530021-011-AV, which was effective on June 27, 2006. This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-210, 62-213 and 214, F.A.C.

Note: Future Changes to 40 CFR 63, Subpart LLL:

In-line Cement Kiln 1 with associated equipment (E.U. Nos. 001, 002, 004, 006, 007, 009, 010, 011, 012, 013, 014, 015, 017, 019, 021, 022, 023 and 024) and In-Line Cement Kiln 2 with associated equipment (E.U. Nos. 044, 045, 046, 047, 048, 050, 051, 052, 054, 057, 058, 059, 060, 061 and 062) are subject to 40 CFR 63, Subpart LLL, National Emissions Standards for Hazardous Air Pollutants from Portland Cement Manufacturing Industry. This regulation was recently revised and the changes are effective September 9, 2013. Both the current version and future version of the regulation are included in the Appendices Section of the permit.

The Environmental Protection Agency (EPA) has finalized amendments to the current National Emission Standards for Hazardous Air Pollutants (NESHAP) for the Portland cement manufacturing industry. The final amendments add or revise, as applicable, emission limits for mercury (Hg), total hydrocarbons (THC), and

**STATEMENT OF BASIS**

particulate matter (PM) from new and existing kilns located at major or area sources, and for hydrochloric acid (HCl) from new and existing kilns located at major sources. EPA has also adopted separate standards for these pollutants which apply during startup and shutdown operating modes. Also, EPA has adopted performance specifications for the required use of mercury continuous emission monitors (CEMS) or sorbent trap based integrated monitors and has amended the rule to update recordkeeping and testing requirements. Finally, kilns and clinker coolers subject to emissions limitations on PM emissions must have a PM CEMS installed and operated in accordance with Appendix B and Appendix F of 40 CFR Part 60.

These final amendments also remove the following provisions in the current NESHAP: the operating limit for the average hourly recycle rate for cement kiln dust; the opacity limits for kilns and clinker coolers; and the 50 parts per million volume dry basis (ppmvd) THC emission limit for new greenfield sources. EPA has also removed the requirement that cement kilns using utility boiler fly ash only use ash of a certain type. This requirement no longer applies once the kiln is subject to the numerical mercury emissions limits in these amendments. The EPA developed these final amendments in response to the notice of reconsideration published on December 20, 2006 and other requirements.

The tables below reflect current (Table 2) and future (Table 1) emissions limits specified in both versions of the regulation. No later than September 9, 2013, CEMEX shall be in compliance with the future emissions limits for existing sources contained in Table 1, as well as all other applicable requirements contained in the newest version of NESHAP, Subpart LLL, related to monitoring, testing, reporting, etc.

**Table 2—Emissions Limits in Effect Prior to September 9, 2010, for Kilns (Rows 1–4), Clinker Coolers (Row 5), and Raw Material Dryers (Rows 6–9).**

<b>If your source is</b>	<b>and</b>	<b>And if it is located at</b>	<b>Your emissions limits are<sup>1</sup>:</b>	<b>And the units of the emissions limit are:</b>
1. An existing kiln	it commenced construction or reconstruction on or prior to December 2, 2005	A major source	PM—0.3 Opacity—20 D/F—0.2 <sup>2</sup> THC—50 <sup>34</sup>	lb/ton feed percent ng/dscm (TEQ) ppmvd.
2. An existing kiln	it commenced construction or reconstruction after December 2, 2005	A major source	PM—0.3 Opacity—20 D/F—0.2 <sup>2</sup> THC—20 <sup>35</sup> Mercury—41 <sup>6</sup>	lb/ton feed percent ng/dscm (TEQ) ppmvd ug/dscm.
3. An existing kiln	it commenced construction or reconstruction on or prior to December 2, 2005	An area source	D/F—0.2 <sup>2</sup> THC—50 <sup>34</sup>	ng/dscm (TEQ) ppmvd.
4. An existing kiln	it commenced construction or reconstruction after December 2, 2005	An area source	D/F—0.2 <sup>2</sup> THC—20 <sup>35</sup> Mercury—41 <sup>6</sup>	ng/dscm (TEQ) ppmvd ug/dscm.
5. An existing clinker cooler	NA	A major source	PM—0.1 Opacity—10	lb/ton feed percent.

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6. An existing raw material dryer	it commenced construction or reconstruction after December 2, 2005	A major source	THC—50 <sup>34</sup> Opacity—10	ppmvd percent.
7. An existing raw material dryer	it commenced construction or reconstruction after December 2, 2005	A major source	THC—20 <sup>35</sup> Opacity—10	ppmvd percent.
8. An existing raw material dryer	it commenced construction or reconstruction on or prior to December 2, 2005	An area source	THC—50 <sup>34</sup>	ppmvd.
9. An existing raw material dryer		An area source	THC—20 <sup>35</sup>	ppmvd.

<sup>1</sup>All emission limits expressed as a concentration basis (ppmvd, ng/dscm) are corrected to seven percent oxygen.

<sup>2</sup>If the average temperature at the inlet to the first particulate matter control device (fabric filter or electrostatic precipitator) during the D/F performance test is 400 °F or less, this limit is changed to 0.4 ng/dscm (TEQ).

<sup>3</sup>Measured as propane.

<sup>4</sup>Only applies to Greenfield kilns or raw material dryers.

<sup>5</sup>As an alternative, a source may demonstrate a 98 percent reduction in THC emissions from the exit of the kiln or raw material dryer to discharge to the atmosphere. Inline raw mills are considered to be an integral part of the kiln.

<sup>6</sup>As an alternative, a source may route the emissions through a packer bed or spray tower wet scrubber with a liquid-to-gas ratio of 30 gallons per 1000 actual cubic feet per minute or more and meet a site-specific emission limit based on the measured performance of the wet scrubber.

[75 FR 55053, Sept. 9, 2010, as amended at 76 FR 2835, Jan. 18, 2011]

**Table 1—Future Emissions Limits for Kilns (Rows 1–8), Clinker Coolers (Rows 9–12), Raw Material Dryers (Rows 13–15), Raw and Finish Mills (Row 16), Effective No Later Than September 9, 2013.**

	<b>If your source is</b>	<b>And the operating mode is:</b>	<b>And if is located</b>	<b>Your emissions limits are:</b>	<b>And the units of the emissions limit are:</b>	<b>The oxygen correction factor is:</b>
1.	An existing kiln	Normal operation	At a major or area source	PM—0.04 D/F—0.2 <sup>1</sup> Mercury—55 THC—24 <sup>2,3</sup>	lb/ton clinker ng/dscm (TEQ) lb/MM tons clinker ppmvd	NA. 7 percent. NA. 7 percent.
2.	An existing kiln	Normal operation	At a major source	HCl—3	ppmvd	7 percent.

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3.	An existing kiln	Startup and shutdown	At a major or area source	PM—0.004 D/F—0.2 <sup>1</sup> Mercury—10 THC—24 <sup>2,3</sup>	gr/dscf ng/dscm (TEQ) ug/dscm ppmvd	NA. NA. NA. NA.
4.	An existing kiln	Startup and shutdown	At a major source	HCl—3 <sup>4</sup>	ppmvd	NA.
5.	A new kiln	Normal operation	At a major or area source	PM—0.01 D/F—0.2 <sup>1</sup> Mercury—21 THC—24 <sup>2,3</sup>	lb/ton clinker ng/dscm (TEQ) lb/MM tons clinker ppmvd	NA. 7 percent. NA. 7 percent.
6.	A new kiln	Normal operation	At a major source	HCl—3 <sup>4</sup>	ppmvd	7 percent.
7.	A new kiln	Startup or shutdown	At a major or area source	PM—0.0008 D/F—0.2 <sup>1</sup> Mercury—4 THC—24 <sup>2,3</sup>	gr/dscf ng/dscm (TEQ) ug/dscm ppmvd	NA. NA. NA. NA.
8.	A new kiln	Startup and shutdown	At a major source	HCl—3	ppmvd	NA.
9.	An existing clinker cooler	Normal operation	At a major or area source	PM—0.04	lb/ton clinker	NA.
10.	An existing clinker cooler	Startup and shutdown	At a major or area source	PM—0.004	gr/dscf	NA.
11.	A new clinker cooler	Normal operation	At a major or area source	PM—0.01	lb/ton clinker	NA.
12.	A new clinker cooler	Startup and shutdown	At a major or area source	PM—0.0008	gr/dscf	NA.

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13.	An existing or new raw material dryer	Normal operation	At a major or area source	THC—24 <sup>2,3</sup>	ppmvd	19 percent.
14.	An existing or new raw material dryer	Startup and shutdown	At a major or area source	THC—24 <sup>2,3</sup>	ppmvd	NA.
15.	An existing or new raw material dryer	All operating modes	At a major source	Opacity—10	percent	NA.
16.	An Existing or new raw or finish mill	All operating modes	At a major source	Opacity-10	percent	NA.

<sup>1</sup>If the average temperature at the inlet to the first particulate matter control device (fabric filter or electrostatic precipitator) during the D/F performance test is 400 °F or less this limit is changed to 0.4 ng/dscm (TEQ).

<sup>2</sup>Measured as propane.

<sup>3</sup>Any source subject to the 24 ppmvd THC limit may elect to meet an alternative limit of 9 ppmvd for total organic HAP. If the source demonstrates compliance with the total organic HAP under the requirements of §63.1349 then the source's THC limit will be adjusted to equal the average THC emissions measured during the organic HAP compliance test.

<sup>4</sup>If the kiln does not have a HCl CEM, the emissions limit is zero.

(2) When there is an alkali bypass associated with a kiln, the combined PM emissions from the kiln or in-line kiln/raw mill and the alkali bypass stack are subject to the PM emissions limit. Existing kilns that combine the clinker cooler exhaust with the kiln exhaust for energy efficiency purposes and send the combined exhaust to the PM control device as a single stream may meet an alternative PM emissions limit. This limit is calculated using the equation 1 of this section:

$$PM_{2.5} = 0.004 \times 1.65 \times (Q_1 + Q_2) / 7000 \quad (\text{Eq. 1})$$



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Where:

0.004 is the PM exhaust concentration (gr/dscf) equivalent to 0.04 lb per ton clinker where clinker cooler and kiln exhaust gas are not combined.

1.65 is the conversion factor of lb feed per lb clinker

$Q_k$  is the exhaust flow of the kiln (dscf/ton raw feed)

$Q_c$  is the exhaust flow of the clinker cooler (dscf/ton raw feed).

For new kilns that combine kiln exhaust and clinker cooler gas the limit is calculated using the equation 2 of this section:

$$PM_{air} = 0.0008 \times 1.65 \times ((Q_k + Q_c) / 1000) \quad (\text{Eq. 2})$$

Where:

0.0008 is the PM exhaust concentration (gr/dscf) equivalent to 0.01 lb per ton clinker where clinker cooler and kiln exhaust gas are not combined

1.65 is the conversion factor of lb feed per lb clinker

$Q_k$  is the exhaust flow of the kiln (dscf/ton raw feed)

$Q_c$  is the exhaust flow of the clinker cooler (dscf/ton raw feed).

(c) If clinker material storage and handling activities occur more than 1,000 feet from the facility property-line you must comply with the following:

(1) Utilize a three-sided barrier with roof, provided the open side is covered with a wind fence material of a maximum 20 percent porosity, allowing a removable opening for vehicle access. The removable wind fence for vehicle access may be removed only during minor or routine maintenance activities, the creation or reclamation of outside storage piles, the importation of clinker from outside the facility, and reclamation of plant clean-up materials. The removable opening must be less than 50 percent of the total surface area of the wind fence and the amount of time must be minimized to the extent feasible.

(2) Contain storage and handling of material that is immediately adjacent to the three-sided barrier within an area next to the structure with a wind fence on at least two sides, with at least a 5-foot freeboard above the top of the storage pile to provide wind sheltering, and completely cover the material with an impervious tarp, revealing only the active disturbed portion during material loading and unloading activities.

(3) Storage and handling of other active clinker material must be conducted within an area surrounded on three sides by a barrier or wind fences with one side of the wind fence facing the prevailing wind and at least a 5-foot freeboard above the top of the storage pile to provide wind sheltering. The clinker must remain completely covered at all times with an impervious tarp, revealing only the active disturbed portion during material loading and unloading activities. The barrier or wind fence must extend at least 20 feet beyond the active portion of the material at all times.

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(4) Inactive clinker material may be alternatively stored using a continuous and impervious tarp, covered at all times, provided records are kept demonstrating the inactive status of such stored material.

(d) If clinker material storage and handling activities occur 1,000 feet or less from the facility property-line these activities must be in an enclosed storage area that meets the emissions limits specified in §63.1345.

(e) Emissions limits in effect prior to September 9, 2010. Any source defined as an existing source in §63.1351, and that was subject to a PM, mercury, THC, D/F, or opacity emissions limit prior to September 9, 2010, must continue to meet the limits shown in Table 2 to this section until September 9, 2013.

CEMEX Construction Materials Florida, LLC  
Brooksville South Cement Plant  
Central Power & Lime, LLC  
Central Power & Lime Plant

Facility ID No. 0530021  
Hernando County

Title V Air Operation Permit Renewal

**Permit No. 0530021-029-AV**

(Renewal of Title V Air Operation Permit No. 0530021-011-AV)



**Permitting Authority:**

State of Florida  
Department of Environmental Protection  
Division of Air Resource Management  
2600 Blair Stone Road  
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Telephone: (850) 717-9000  
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**Compliance Authority:**

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## Title V Air Operation Permit Renewal

Permit No. 0530021-029-AV

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## ***DRAFT/PROPOSED PERMIT***

**PERMITTEE:**

CEMEX Construction Materials Florida, LLC  
Central Power & Lime, LLC  
10311 Cement Plant Road  
Brooksville, Florida 34601

Permit No. 0530021-029-AV  
Cement Manufacturing Lines 1 and 2  
Power Plant and Auxiliary Equipment  
Facility No. 0530021  
Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V Air Operation Permit for the above referenced facility. The facility consists of the CEMEX Brooksville South Cement Plant owned by CEMEX Construction Materials Florida, LLC (CEMEX) and the Central Power and Lime (CP&L), LLC, Plant owned by Arroyo Energy Investors, LLC. Universal Transverse Mercator (UTM) Coordinates are: Zone 17; 360.00 km East; and 3162.50 km North. Latitude is: 28° 35' 00" North; and, Longitude is: 82° 25' 53" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: Day 55  
Renewal Application Due Date: Expiration date – 225 days  
Expiration Date: Day 55 + 5 years

Executed in Tallahassee, Florida

*(Draft/Proposed)*

\_\_\_\_\_  
Jeffery F. Koerner, Program Administrator (Date)  
Office of Permitting and Compliance  
Division of Air Resource Management

JFK/jkh/tbc

## SECTION I. FACILITY INFORMATION.

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### **Subsection A. Facility Description.**

The facility is an integrated facility that includes two Portland cement manufacturing lines, a 150 megawatt (MW) power plant, a coal yard and all the required auxiliary equipment. The applicants operate this existing integrated site as a single Title V facility. This site is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to a National Ambient Air Quality Standard (NAAQS). The plant is located approximately 20 kilometers (km) east of the Prevention of Significant Deterioration of Air Quality (PSD) Class I Chassahowitzka Wilderness Area. The placard page above indicates the exact geographical coordinates.

The CEMEX Construction Materials Florida, LLC, (CEMEX) plant ownership comprises both manufacturing Portland cement lines; associated raw and product material handling activities; some coal handling activities and auxiliary equipment; as well as, all of the land designated as the South Brooksville facility.

Portland Cement Line 1 includes an in-line kiln/raw mill, clinker cooler and associated process equipment. This line shares a common baghouse and stack with the power plant. Waste heat from the kiln is used to provide heat to the raw mill and the kiln preheater, which is used to drive off moisture from the materials used for making clinker. All of the materials handling activities are controlled by fabric filter baghouse control systems, except for the Clinker Receiving/Handling System and the coal yard activities. For the Clinker Receiving/Handling System, the fugitive particulate matter emissions generated from the transfer of clinker from the receiving hopper to the belt conveyor are controlled using a Johnston-Marsh dust suppression system. Water sprays or chemical wetting agents and stabilizers are used at the coal receiving area, the coal storage area, and the coal transfer system to control fugitive particulate matter emissions and minimize visible emissions. All fly ash handling systems (including transfer and silo storage) are totally enclosed and vented (including pneumatic system exhaust) through fabric filters.

Portland Cement Line 2 includes a raw mill system, a dry process preheater/precalciner kiln system, clinker handling system, finish grinding operations, two cement loadout silos, and coal handling and grinding operations. Nitrogen oxides (NO<sub>x</sub>) emissions are controlled by the use of Selective Non-catalytic Reduction (SNCR) technology. Sulfur dioxide (SO<sub>2</sub>) emissions are controlled by use of low sulfur raw materials and inherent scrubbing by finely divided lime in the calciner and limestone in the raw mill. Carbon monoxide (CO) and volatile organic compounds (VOC) emissions are controlled by promoting complete combustion in the kiln and calciner and minimizing carbon and oily content of raw materials. Particulate matter (PM/PM<sub>10</sub>) from the pyroprocessing system and the clinker cooler are controlled by large fabric filter baghouses. Mercury emissions are controlled by material balance with a minimum of quarterly analysis of raw material samples and making and maintaining records of monthly and rolling 12-month mercury throughput. All of the materials handling activities particulate matter emissions are controlled by fabric filters. Water sprays or chemical wetting agents and stabilizers are used at the coal receiving area, the coal storage area, and the coal transfer system to control fugitive particulate matter emissions and minimize visible emissions. Continuous monitors are operated for opacity, NO<sub>x</sub>, SO<sub>2</sub>, and oxygen (O<sub>2</sub>).

Portland Cement Line 2 has a capacity of 258 tons per hour of material fed (dry basis) to the preheater, 156 tons per hour of clinker production, and 240 tons per hour of Portland cement production. Daily and annual rates are 2,107,875 tons per year (5,775 tons/day, 24-hour average) of material fed to the preheater (dry basis), 1,277,500 tons per year (3,500 tons/day, 24-hour average) of clinker production, and 1,800,000 tons per year (5,760 tons/day or 240 ton/hr) of cement production. Fuels allowed to be used in the pyroprocessing system are natural gas, distillate fuel oil, on specification used oil, coal, petroleum coke, propane, flyash, and tire derived fuels. Line 2 also includes a coal processing operation that crushes coal and petroleum coke and has an annual processing capacity of 175,200 tons of coal and petroleum coke.

The Central Power & Lime, LLC, (CP& L) plant ownership comprises the power boiler, all limestone handling activities as well as some coal handling activities and auxiliary equipment. CP&L operates the power plant at the South Brooksville site under a lease agreement with CEMEX, which grants them access to the property and use of a shared baghouse and stack with CEMEX's Portland Cement Line 1.

**SECTION I. FACILITY INFORMATION.**

The CP&L power plant boiler is rated at 1,850 million British thermal units per hour (MMBtu/hr) (3-hour average) and is allowed to generate a net delivered 150 MW. The primary fuel burned is coal, with new distillate No. 2 fuel oil used for startup. A dry limestone injection scrubbing system is used to control SO<sub>2</sub> emissions from the power plant boiler and particulate matter is collected in the common baghouse fabric filter system that also serves Cement Line 1.

**Subsection B. Summary of Emissions Units.**

<b>EU No.</b>	<b>Plant ID</b>	<b>Brief Description</b>
<i>Regulated Emissions Units</i>		
<b>Brooksville Portland Cement Line 1</b>		
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 (was Kiln Feed Bin) with Baghouse
008	S-04	Clinker Receiving/Handling System
009	K-07 & L-03	Clinker Cooler Discharge with Baghouse
010	L-06 to L-05 & L-07	Clinker Storage Silos with Baghouse
011	L-08	Gypsum and Limestone Bins (was Clinker Silo) with Baghouse
012	M-08 and 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
017	D-63	Iron Ore Bin 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

**SECTION I. FACILITY INFORMATION.**

<b>EU No.</b>	<b>Plant ID</b>	<b>Brief Description</b>
<b>Brooksville Portland Cement Plant 2</b>		
044		Kiln, In-line Raw Mill, Pre-Heater, Pre-Calciner and Clinker Cooler
045		Filter Dust Bin, Filter Dust Bin Loadout Spout
046		Blend Silo
047		Kiln Feed Transport, Blend Silo Discharge, Kiln Feed Bin
048		Clinker Transport
050		Clinker Storage Silo, Clinker Silo Discharge 1, Clinker Silo Discharge 2
051		Finish Mill Additives
052		Finish Mill and Air Heater
054		Finish Mill Bucket Elevator
057		Finish Mill Cement Transport, Finish Mill Rejects Transport
058		Cement Silo 5, Cement Silo 5 Loading Bin, Cement Silo 5 Loadout Spout N, Cement Silo 5 Loadout Spout S
059		Multi Cell Cement Silo, Multi Cell Cement Silo Alleviator, Multi Cell Loadout Transport, Multi Cell Loadout Spout
062		Packing Plant
060		Coal Mill
061		Fine Coal Bin
063		Emergency Diesel Generator
<b>CP&amp;L Plant</b>		
018	018	Power Plant Boiler
035	D-38	Limestone Rock Bin Baghouse
036	D-31	Contaminated Fly Ash & Filter Dust Bin
037	D-39	Limestone Screening System
038	D-13	Limestone Fines Storage Bin
039	Z-31	Lime Dust Storage Bin
<b>Brooksville Portland Cement Line 1/CP&amp;L Plant</b>		
042		Coal Receiving, Handling and Transfer System (fugitives)

**Subsection C. Applicable Regulations.**

Based on the Title V Air Operation Permit Renewal application received November 12, 2011, this facility is a major source of hazardous air pollutants (HAP). Because this facility operates stationary reciprocating internal combustion engines, it is subject to regulation under 40 CFR 63, Subpart ZZZZ - National Emissions Standards



**SECTION I. FACILITY INFORMATION.**

For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines. See Section III, Subsection J that describes in detail the emergency diesel generator at the facility. The existing facility is a prevention of significant deterioration (PSD) major source of air pollutants in accordance with Rule 62-212.400, F.A.C. A summary of applicable regulations is shown in the following table.

<b>Regulation</b>	<b>EU No(s).</b>
<i>Federal Rule Citations</i>	
40 CFR 60, Subpart A, NSPS General Provisions	001, 002, 004, 006, 007, 009, 010, 011, 012, 013, 014, 015, 017, 019, 021, 022, 023, 024, 063
40 CFR 60, Subpart F -- Standards of Performance for Portland Cement Plants.	001, 002, 004, 006, 007, 009, 010, 011, 012, 013, 014, 015, 017, 019, 021, 022, 023, 024
40 CFR 60, Subpart IIII -- Compression Ignition Internal Combustion Engines	063
40 CFR 63, Subpart A, NESHAP General Provisions	001, 002, 004, 006, 007, 009, 010, 011, 012, 013, 014, 015, 017, 019, 021, 022, 023, 024, 063
40 CFR 63, Subpart LLL, National Emissions Standards for Hazardous Air Pollutants from Portland Cement Manufacturing Industry	001, 002, 004, 006, 007, 009, 010, 011, 012, 013, 014, 015, 017, 019, 021, 022, 023, 024
40 CFR 63, Subpart ZZZZ -- Reciprocating Internal Combustion Engines	063
<i>State Rule Citations</i>	
Rule 62-4, Florida Administrative Code (F.A.C.) (Permitting Requirements)	
Rule 62-204, F.A.C. (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference)	001, 002, 004, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 017, 018, 019, 020, 021, 022, 023, 024, 035, 036, 037, 038, 039, 044, 045, 046, 047, 048, 050, 051, 052, 053, 058, 059, 060, 061, 062, 063
Rule 62-210, F.A.C. (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms)	
Rule 62-212.400, F.A.C., Prevention of Significant Deterioration	
Rule 62-213, F.A.C. (Title V Air Operation Permits for Major Sources of Air Pollution)	
Rule 62-296, F.A.C. (Emission Limiting Standards)	
Rule 62-297, F.A.C. (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures)	
Rule 62-296.470, F.A.C., Clean Air Interstate Rule (CAIR)	018
Power Plant Siting: PA 82-17	

## SECTION II. FACILITY-WIDE CONDITIONS.

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### The following conditions apply facility-wide to all emission units and activities:

**FW1. Appendices.** The permittee shall comply with all documents identified in Section VI, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

### **Emissions and Controls**

**FW2. Not federally enforceable. Objectionable Odor Prohibited.** No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An “objectionable odor” means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and 62-210.200(Definitions), F.A.C. ; and, AC27-199744]

**FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions.** The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]

*{Permitting Note: Nothing is deemed necessary and ordered at this time.}*

**FW4. General Visible Emissions.** No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), F.A.C.]

**FW5. Unconfined Particulate Matter.** No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

- a. Chemical or water application of dust suppressants on roads and construction sites.
- b. Landscaping and planting of vegetation.

[Rule 62-296.320(4)(c), F.A.C.; and, proposed by applicant in Title V air operation permit renewal application received November 12, 2010.]

### **Annual Reports and Fees**

See Appendix RR, Facility-wide Reporting Requirements for additional details.

**FW6. 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 April 1<sup>st</sup> of each year. [Rule 62-210.370(3), F.A.C.]

**FW7. Annual Emissions Fee Form and Fee.** The annual Title V emissions fees are due (postmarked) by March 1<sup>st</sup> of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: <http://www.dep.state.fl.us/air/emission/tvfee.htm>. [Rule 62-213.205, F.A.C.]

**FW8. Annual Statement of Compliance.** The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective. [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

**FW9. Prevention of Accidental Releases (Section 112(r) of CAA).** If, and when, the facility becomes subject to 112(r), the permittee shall:

## SECTION II. FACILITY-WIDE CONDITIONS.

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- a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.
- b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.  
[40 CFR 68]

### **Other Requirements**

- FW10. PM<sub>10</sub> Ambient Monitoring.** The permittee shall operate four (4) ambient monitoring devices for particulate matter (PM<sub>10</sub>) in accordance with EPA quality assurance procedures and reference methods in 40 CFR 53. The monitoring devices shall be operated at three locations (one location will have two monitors for quality assurance purposes) approved by Hernando County. The frequency of operation of the monitors shall be every six (6) days. [OGC Case No. 00-0168 resolution, documented in letter from Fowler White Attorneys at Law, dated June 21, 2000]
- FW11. NESHAP Subpart LLL (Version September 9, 2010).** No later than September 9, 2013, CEMEX shall be in compliance with the future emissions limits for existing sources contained in Table 1 of Appendix NESHAP, Subpart LLL (September 9, 2013), as well as all other applicable requirements contained in the newest version of NESHAP, Subpart LLL, related to monitoring, testing, reporting, etc.

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection A. Brooksville Portland Cement Line 1— Materials Handling Activities**

**The specific conditions in this section apply to the following emissions units:**

<b>EU No.</b>	<b>Plant ID No.</b>	<b>Brief Description</b>
001	D-75	Filter Dust Bin with Baghouse
002	D-67	Fly Ash/Equilibrium Catalyst Bin 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
009	K-07 & L-03	Clinker Cooler Discharge with Baghouse
010	L-06 to L-05 & L-07	Clinker Storage Silos with Baghouse
011	L-08	Gypsum and Limestone Bins with Baghouse
012	M-08 and 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
017	D-63	Iron Ore Bin with Baghouse
019	M-05	Finish Mill Feed Belt 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

Filter Dust Bin with Baghouse (001). This emissions unit is a storage bin for fines (dust). The particulate matter (PM) emissions from the materials being transferred are controlled by a low temperature baghouse fabric filter system. The stack height is 125 feet, with an exit diameter of 2.0 feet and an exit temperature of 77° F. The nominal volumetric flow rate is 6,800 actual cubic feet per minute (acfm) (6,686 dry standard cubic feet per minute (dscfm)).

Fly Ash/Equilibrium Catalyst Bin with Baghouse (002). This emissions unit is a storage bin for fly ash/equilibrium catalyst. The PM emissions are controlled by a low temperature baghouse fabric filter system. The stack height is 125 feet, with an exit diameter of 2.0 feet and an exit temperature of 77° F. The nominal volumetric flow rate is 4,200 acfm (4,130 dscfm).

Raw Meal Transfer with Baghouse (004). This emissions unit is an activity of raw meal being transferred from the storage bins to the raw mill. The PM emissions are controlled by a low temperature baghouse fabric filter system. The stack height is 70 feet, with an exit diameter of 1.0 feet and an exit temperature of 180° F. The nominal volumetric flow rate is 1,200 acfm (970 dscfm).

Two Blend Storage Silos with Baghouse (006). This emissions unit is two storage silos for the raw meal being transferred from the raw mill. The PM emissions are controlled by a single low temperature baghouse fabric filter

## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

### Subsection A. Brooksville Portland Cement Line 1— Materials Handling Activities

system. The stack height is 240 feet, with an exit diameter of 3.5 feet and an exit temperature of 180° F. The nominal volumetric flow rate is 17,000 acfm (13,745 dscfm).

Kiln Feed Surge Bin with Baghouse (007). This emissions unit is an activity of materials being pre-heated in the pre-heater and transferred to the kiln. The PM emissions are controlled by a medium temperature baghouse fabric filter system. The stack height is 50 feet, with an exit diameter of 2.0 feet and an exit temperature of 200° F. The nominal volumetric flow rate is 6,000 acfm (4,704 dscfm).

Clinker Cooler Discharge with Baghouse (009). This emissions unit is an activity of clinker transfer from the clinker cooler to the deep bucket conveyor (L-03), which conveys clinker to clinker storage. The PM emissions are controlled by a medium temperature baghouse fabric filter system. The stack height is 10 feet, with an exit diameter of 1.0 feet and an exit temperature of 250° F. The nominal volumetric flow rate is 5,100 acfm (3,717 dscfm).

Clinker Storage Silos with Baghouse (010). This emissions unit is an activity of clinker being transferred to the finish mill. The PM emissions are controlled by a single medium temperature baghouse fabric filter system. The stack height is 200 feet, with an exit diameter of 1.5 feet and an exit temperature of 200° F. The nominal volumetric flow rate is 2,600 acfm (2,038 dscfm).

Gypsum and Limestone Bins with Baghouse (011). This emissions unit is an activity of gypsum and limestone being stored and transferred. The PM emissions are controlled by a single medium temperature baghouse fabric filter system. The stack height is 135 feet, with an exit diameter of 1.5 feet and an exit temperature of 200° F. The nominal volumetric flow rate is 5,000 acfm (3,920 dscfm).

Silo Discharge with Baghouse and Clinker Feeder Baghouse (012). This emissions unit is an activity of clinker, gypsum or limestone being transferred from their silos. The PM emissions are controlled by two low temperature baghouse fabric filter systems. The stack height is 135 feet, with an exit diameter of 2.5 feet and an exit temperature of 100° F. The nominal volumetric flow rate is 9,000 acfm (8,316 dscfm) for the silo discharge baghouse. The application for the clinker feeder baghouse construction permit states a volumetric design flow rate of 2,125 acfm (1,782 dscfm) for this second baghouse.

Finish Mill with Baghouse (013). This emissions unit combines clinker, limestone and gypsum to form cement. The PM emissions are controlled by a medium temperature baghouse fabric filter system. The stack height is 70 feet, with an exit diameter of 5.0 feet and an exit temperature of 210° F. The nominal volumetric flow rate is 40,000 acfm (30,892 dscfm).

A-Side Cement Storage Silos #1 and #2 Discharge System with Baghouse (014). This emissions unit activity is the unloading of cement from the three storage silos. The PM emissions are controlled by a low temperature baghouse fabric filter system. The stack height is 50 feet, with an exit diameter of 1.5 feet and an exit temperature of 160° F. The nominal volumetric flow rate is 3,200 acfm (2,671 dscfm).

Cement Storage Silos #1 and #2 with Baghouse (015). This emissions unit is an activity of cement being pneumatically transferred to two storage silos from the finish mill. The PM emissions are controlled by a single low temperature baghouse fabric filter system. The stack height is 200 feet, with an exit diameter of 2.0 feet and an exit temperature of 180° F. The nominal volumetric flow rate is 7,400 acfm (5,983 dscfm).

Iron Ore Bin with Baghouse (017). This emissions unit is an activity of iron ore being stored in a bin. The PM emissions are controlled by a low temperature baghouse fabric filter system. The stack height is 51 feet, with an exit diameter of 1.5 feet and an exit temperature of 180° F. The nominal volumetric flow rate is 3,600 acfm (2,911 dscfm).

Finish Mill Feed Belt with Baghouse (019). This emissions unit is an activity of transferring clinker, gypsum or limestone to the finish mill. The PM emissions are controlled by a low temperature baghouse fabric filter system. The stack height is 29 feet, with an exit diameter of 2.0 feet and an exit temperature of 85° F. The nominal volumetric flow rate is 9,000 acfm (8,820 dscfm).

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection A. Brooksville Portland Cement Line 1— Materials Handling Activities**

B-Side Cement Storage Silos #1, #2 and #3 Discharge System with Baghouse (021). This emissions unit is used for the unloading of cement from a storage silo. The PM emissions are controlled by a low temperature baghouse fabric filter system. The stack height is 50 feet, with an exit diameter of 1.5 feet and an exit temperature of 160° F. The nominal volumetric flow rate is 10,000 acfm (8,548 dscfm).

Cement Storage Silo #3 with Baghouse (022). This emissions unit is an activity of cement being pneumatically transferred to a silo from the finish mill. The PM emissions are controlled by a low temperature baghouse fabric filter system. The stack height is 200 feet, with an exit diameter of 2.0 feet and an exit temperature of 180° F. The nominal volumetric flow rate is 5,300 acfm (4,389 dscfm).

Cement Storage Silo #4 and Truck Loadout System with Baghouse (023). This emissions unit is an activity of cement being pneumatically transferred to the silo from the finish mill and cement loaded into trucks. The PM emissions are controlled by a single low temperature baghouse fabric filter system. The stack height is 75 feet, with an exit diameter of 0.8 feet and an exit temperature of 77° F. The nominal volumetric flow rate is 860 acfm (829 dscfm).

Cement Storage Silo and Railcar Loadout System with Baghouse (024). This emissions unit is an activity of cement being pneumatically transferred to the railcar silo from the cement storage silos #1, #2 and #3. The PM emissions are controlled by two low temperature baghouse fabric filter systems. One stack height is 80 feet, with an exit diameter of 1.5 feet and an exit temperature of 77° F, nominal volumetric flow rate is 6,000 acfm (5,899 dscfm); and, the other (Z-18) stack height is 10 feet, with an exit diameter of 0.5 feet and an exit temperature of 77° F, nominal volumetric flow rate is 500 acfm (490 dscfm).

*{Permitting Note: These emissions units are regulated under Rule 62-297.620(4), F.A.C., Exceptions and Approval of Alternate Procedures and Requirements; Rules 62-212.400 and 62-212.400(4), F.A.C., Prevention of Significant Deterioration (PSD-FL-091) and Best Available Control Technology, respectively; Power Plant Siting: PA 82-17; and, 40 CFR 63, Subpart LLL, National Emissions Standards for Hazardous Air Pollutants from Portland Cement Manufacturing Industry, adopted in Rule 62-204.800, F.A.C.}*

**Essential Potential to Emit (PTE) Parameters**

**A.1. Permitted Capacity.** The maximum process/transfer/throughput rates are:

Unit No.	Maximum Rate
001	450 tons/hour (TPH)
002	25 TPH
004	138 TPH
006	138 TPH
007	138 TPH
009	83 TPH
010	83 TPH
011	75 TPH
012	122 TPH
013	125 TPH; 876,000 TPY
014	300 TPH
015	125 TPH each 876,000 TPY each
017	100 TPH
019	120 TPH
021	300 TPH
022	125 TPH; 876,000 TPY

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection A. Brooksville Portland Cement Line 1— Materials Handling Activities**

Unit No.	Maximum Rate
023	47 TPH: silo 390 TPH: trucks
024	30 TPH: silo 100 TPH: railcars

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE); and, Permit Nos. 0530021-003-AO; 0530021-004-AO; PSD-FL-090 and 091; 0530021-006-AC, Specific Condition B.2]

**A.2. Emissions Unit Operating Rate Limitation After Testing.** See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

**A.3. Methods of Operation.** The emissions units either process or transfer materials used in the production of Portland cement. The fly ash handling system (including transfer and silo storage) is totally enclosed and vented (including pneumatic system exhaust) through fabric filters. [Rule 62-213.410, F.A.C.; PA 82-17 and PA 82-17E; and, PSD-FL-090 and 091]

**A.4. Hours of Operation.** These emissions units may operate continuously (8,760 hours/year), except for the B-Side Cement Storage Silos #1, #2 and #3 Discharge System, the Cement Storage Silo #3, and the Cement Storage Silo #4 and Truck Loadout System. The B-Side Cement Storage Silos #1, #2 and #3 Discharge System, the Cement Storage Silo #3, and the Cement Storage Silo #4 and Truck Loadout System are allowed to operate 7,884 hours/year. [Rule 62-210.200(PTE), F.A.C., and, Permit Nos. AC27-091432, -091433, Specific Condition 1., -118672, -118673, -118675, -118677, -118678, -118683, -118685, -118686, -118687, -118688, -118689, -118690, -189081, -199744 and -228926]

**Emission Limitations and Standards**

Unless otherwise specified, the averaging times for Specific Conditions **A.5. - A.6.** are based on the specified averaging time of the applicable test method.

**A.5. Visible Emissions.** Visible emissions shall not exceed 5 percent opacity, since each emissions unit's potential particulate matter emissions are less than 100 TPY and is equipped with a baghouse control system. As long as the visible emissions do not exceed 5 percent opacity, compliance is assumed for the particulate matter limitations established in Specific Condition **A.6.** If the Department has reason to believe that the particulate matter emissions standards in Specific Condition **A.6.** are not being met, it shall require that compliance be demonstrated by the test method specified in Specific Condition **A.12.** [PSD-FL-090 and PSD-FL-091, Specific Conditions 6 and 8, and BACT; PA 82-17; AC27-091432, -091433, -118672, -118673, -118675, -118677, -118678, -118683, -118685, -118686, -118687, -118688, -118689, -118690, -189081, -199744 and -228926]

**A.6. Particulate Matter Emissions.** The maximum allowable particulate matter emissions are:

E.U. ID No.	Brief Description	Maximum Allowable Limits
001	Filter Dust Bin with Baghouse	0.015 gr/acf; 0.7 lb/hr; 3.07 TPY
002	Fly Ash/Equilibrium Catalyst Bin with Baghouse	0.015 gr/acf; 0.4 lb/hr; 1.75 TPY
004	Raw Meal Transfer with Baghouse	0.015 gr/acf; 0.2 lb/hr; 0.88 TPY
006	Two Blend Silos with Baghouse	0.015 gr/acf; 2.2 lbs/hr; 9.64 TPY
007	Kiln Feed Surge Bin with Baghouse	0.015 gr/acf; 0.8 lb/hr; 3.50 TPY
009	Clinker Cooler Discharge with Baghouse	0.015 gr/acf; 0.66 lb/hr; 2.9 TPY
010	Clinker Storage Silos with Baghouse	0.015 gr/acf; 0.3 lb/hr; 1.31 TPY
011	Gypsum and Limestone Bins with Baghouse	0.015 gr/acf; 0.6 lb/hr; 2.63 TPY

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection A. Brooksville Portland Cement Line 1— Materials Handling Activities**

<b>E.U. ID No.</b>	<b>Brief Description</b>	<b>Maximum Allowable Limits</b>
012	Silo Discharge with Baghouse and Clinker Feeder Baghouse	5% opacity limit only
013	Finish Mill with Baghouse	0.015 gr/acf; 5.1 lbs/hr; 22.34 TPY
014	A-Side Cement Storage Silos #1 and #2 Discharge System with Baghouse	0.015 gr/acf; 0.4 lb/hr; 1.75 TPY
015	Cement Storage Silos #1 and #2 with Baghouse	0.015 gr/acf; 1.0 lb/hr; 4.38 TPY
017	Iron Ore Bin with Baghouse	0.015 gr/acf; 0.5 lb/hr; 2.19 TPY
019	Finish Mill Feed Belt with Baghouse	1.16 lbs/hr; 5.08 tons/rolling 12-months
021	B-Side Cement Storage Silos #1, #2 and #3 Discharge System with Baghouse	0.015 gr/acf; 1.29 lbs/hr; 5.1 TPY
022	Cement Storage Silo #3 with Baghouse	0.015 gr/acf; 0.68 lb/hr; 2.7 TPY
023	Cement Storage Silo #4 and Truck Loadout System with Baghouse	0.015 gr/acf; 0.11 lb/hr; 0.44 TPY
024	Cement Storage Silo and Railcar Loadout System with Baghouses	0.02 gr/acf

[PSD-FL-090 and PSD-FL-091 and BACT; PA 82-17; and, AC27-091432, -091433, Specific Condition 2.-118672, -118673, -118675, -118677, -118678, -118683, -118685, -118686, -118687, -118688, -118689, -118690, -189081, -199744 and -228926; and, 0530021-006-AC and 0530021-030-AC, Specific Condition A.4. (for emissions unit 012)]

**Excess Emissions**

Rule 62-210.700 (Excess Emissions), F.A.C., cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

- A.7. Excess Emissions Allowed.** Excess emissions resulting from startup, shutdown or malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]
- A.8. Excess Emissions Prohibited.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

**Monitoring of Operations**

**A.9. Operations and Maintenance Plan.**

- a. *Plan Details.* The owner or operator of each Portland cement plant shall have on file for each affected source subject to the provisions of 40 CFR 63, Subpart LLL, a written operations and maintenance plan. Appendix O and M (Operation and Maintenance Plan) (attached) is a part of this permit and this subsection. The plan shall include the following information:
  - (1) Procedures for proper operation and maintenance of the affected source and air pollution control devices in order to meet the emission limits and operating limits of 40 CFR 63.1347 and 40 CFR 63.1348;
  - (2) Corrective actions to be taken when required by paragraph 40 CFR 63.1350(e);
  - (3) Procedures to be used to periodically monitor affected sources subject to opacity standards under 40 CFR 63.1348. Such procedures must include the provisions of paragraphs 40 CFR 63.1350(a)(4)(i) through (a)(4)(iv).



### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection A. Brooksville Portland Cement Line 1— Materials Handling Activities

- (a) 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, 40 CFR Part 60. The test must be conducted while the affected source is in operation.
- (b) If no visible emissions are observed in six consecutive monthly tests for any affected source, the owner or operator may decrease the frequency of 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 testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
- (c) If no visible emissions are observed during the semi-annual test for any affected source, the owner or operator may decrease the frequency of testing from semi-annually to annually for that affected source. If visible emissions are observed during any annual test, the owner or operator must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
- (d) If visible emissions are observed during any Method 22 test, the owner or operator must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A, 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.
- (e) 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.

- b. *Compliance.* Failure to comply with any provision of the operations and maintenance plan developed in accordance with paragraph 40 CFR 63.1350(a) shall be a violation of the standard.  
[Rule 62-204.800, F.A.C.; and, 40 CFR 63.1350(a)(1), (2) & (4) and (b)]

- A.10. Finish Mill: Opacity Monitoring.** The owner or operator of a finish mill shall monitor opacity by conducting daily visual emissions observations of the mill sweep and air separator PMCDs (PM control devices) of this affected source, in accordance with the procedures of Method 22 of Appendix A, 40 CFR Part 60. The Method 22 test shall be conducted while the affected source is operating at the representative performance conditions. The duration of the Method 22 test shall be six (6) minutes. If visible emissions are observed during any Method 22 visible emissions test, the owner or operator must:
- a. *Initial Action.* Initiate, within one-hour, the corrective actions specified in the site specific operating and maintenance plan developed in accordance with paragraphs 40 CFR 63.1350(a)(1) and (a)(2); and,
  - b. *Follow-up.* Within 24 hours of the end of the Method 22 test in which visible emissions were observed, conduct a follow-up Method 22 test of each stack from which visible emissions were observed during the previous Method 22 test. If visible emissions are observed during the follow-up Method 22 test, conduct a visual opacity test of each stack from which visible emissions were observed during the follow-up Method 22 test in accordance with Method 9 of Appendix A, 40 CFR Part 60. The duration of the Method 9 test shall be thirty minutes.

[Rule 62-204.800, F.A.C.; and, 40 CFR 63.1350(e)]

- A.11. Opacity Monitoring.** The owner or operator of an affected source subject to a limitation on opacity under 40 CFR 63.1348 shall monitor opacity in accordance with the operation and maintenance plan developed in accordance with paragraph 40 CFR 63.1350(a). [Rule 62-204.800, F.A.C.; and, 40 CFR 63.1350(j)]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection A. Brooksville Portland Cement Line 1— Materials Handling Activities**

**Test Methods and Procedures**

**A.12. Test Methods.** Required tests shall be performed in accordance with the following reference methods:

<b>Method</b>	<b>Description of Method and Comments</b>
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM <sub>10</sub> .)
9	Visual Determination of the Opacity of Emissions from Stationary Sources
22	Visual Determination of Fugitive Emissions

The above methods are described in 40 CFR 60, Appendix A, and 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. [40 CFR 63.1349(b)(2), 62-297.401, F.A.C., 0530021-030-AC, Specific Condition A.6.]

**A.13. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

**A.14. Annual Compliance Tests Required.** During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), each emissions unit shall be tested to demonstrate compliance with the emissions standards for visible emissions. [Rule 62-297.310(7), F.A.C.]

**Recordkeeping and Reporting Requirements**

**A.15. Reporting Schedule.** The following reports and notifications shall be submitted to the Compliance Authority:

<b>Report</b>	<b>Reporting Deadline</b>	<b>Related Condition(s)</b>
Notice and Reporting of Malfunctions	Notice per occurrence; quarterly report on demand.	<b>A.17.</b>
Reporting Requirements from 40 CFR 63 Subpart LLL	As required by Subpart LLL.	<b>A.18.</b>

[Rule 62-213.440, F.A.C.]

**A.16. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

**A.17. Malfunctions.** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

**A.18. Reporting Requirements from 40 CFR 63 Subpart LLL.**

- a. *Provisions.* The reporting provisions of 40 CFR 63, Subpart A, are contained in Appendix 40 CFR 63, Subpart A (attached), and are applicable. If any State requires a report that contains all of the information required in a report listed in 40 CFR 63.1354, the owner or operator may send the Administrator a copy of the report sent to the State to satisfy the requirements of 40 CFR 63.1354 for that report.
- b. *Reporting.* The owner or operator of an affected source shall comply with the reporting requirements specified in 40 CFR 63.10 of the general provisions of 40 CFR Part 63, Subpart A, as follows:
  - (1) As required by 40 CFR 63.10(d)(2), the owner or operator shall report the results of performance tests as part of the notification of compliance status.
  - (2) As required by 40 CFR 63.10(d)(3), the owner or operator of an affected source shall report the 40 opacity results from tests required by 40 CFR 63.1349.

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection A. Brooksville Portland Cement Line 1— Materials Handling Activities

- (3) As required by 40 CFR 63.10(d)(4), the owner or operator of an affected source who is required to submit progress reports as a condition of receiving an extension of compliance under 40 CFR 63.6(i) shall submit such reports by the dates specified in the written extension of compliance.
- (4) As required by CFR 63.10(d)(5), if actions taken by an owner or operator during a startup, shutdown, or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan (retained on site) specified in 40 CFR 63.6(e)(3), the owner or operator shall state such information in a semiannual report. Reports shall only be required if a startup, shutdown, or malfunction occurred during the reporting period. The startup, shutdown, and malfunction report may be submitted simultaneously with the excess emissions and continuous monitoring system performance reports; and
- (5) Any time an action taken by an owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the procedures in the startup, shutdown, and malfunction plan, the owner or operator shall make an immediate report of the actions taken for that event within 2 working days, by telephone call or facsimile transmission. The immediate report shall be followed by a letter, certified by the owner or operator or other responsible official, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred.

[Rule 62-204.800, F.A.C.; and, 40 CFR 63.1354(a) and (b)(1) thru (5)]

#### **A.19. Recordkeeping Requirements from 40 CFR 63 Subpart LLL.**

- a. *Files.* The owner or operator shall maintain files of all information (including all reports and notifications) required by 40 CFR 63.1355 recorded in a form suitable and readily available for inspection and review as required by 40 CFR 63.10(b)(1). The files shall be retained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent **five** years of data shall be retained on site. The files may be maintained on microfilm, on a computer, on floppy disks, on magnetic tape, or on microfiche.
- b. *Records.* The owner or operator shall maintain records for each affected source as required by 40 CFR 63.10(b)(2) and (b)(3); and
  - (1) All documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9;
  - (2) All records of applicability determination, including supporting analyses; and
  - (3) If the owner or operator has been granted a waiver under 40 CFR 63.8(f)(6), any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements.

[Rules 62-204.800 and 62-213.440, F.A.C.; and, 40 CFR 63.1355(a) and (b)]

#### **Other Requirements**

**A.20. Exemption From Multiple Federal Requirements.** Portland Cement Line 1 is an affected facility subject to the provisions of 40 CFR 63, Subpart LLL. If an affected facility subject to 40 CFR 63, Subpart LLL has a different emission limit or requirement for the same pollutant under another regulation in title 40 of this chapter, the owner or operator of the affected facility must comply with the most stringent emission limit or requirement and is exempt from the less stringent requirement. In particular, refer to 40 CFR 60, Subpart F, Standards of Performance for Portland Cement Plants. [Rule 62-204.800, F.A.C. and 40 CFR 63.1356]

**A.21. NESHAP Subpart A.** The emissions units are subject to the attached Appendix NESHAP A - 40 CFR 63, Subpart A – General Provisions for NESHAP.

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection B. Brooksville Portland Cement Line 1 – Clinker Receiving/Handling System**

**The specific conditions in this section apply to the following emissions unit:**

<b>EU No.</b>	<b>Plant ID</b>	<b>Brief Description</b>
008	S-04	Clinker Receiving/Handling System

This emissions unit is an integrated system for handling clinker that includes a below-grade truck unloading hopper, a belt conveyor, and a deep-bucket conveyor. The fugitive particulate matter emissions generated from the transfer of clinker from the receiving hopper to the belt conveyor are controlled by the use of a Johnston-Marsh dust suppression system.

*{Permitting Note: This emissions unit is regulated under Rules 62-212.400 and 62-212.400(4), F.A.C., Prevention of Significant Deterioration (PSD-FL-091) and Best Available Control Technology, respectively; and, 40 CFR 63, Subpart LLL, National Emissions Standards for Hazardous Air Pollutants from Portland Cement Manufacturing Industry, adopted in Rule 62-204.800, F.A.C.}*

**Essential Potential to Emit (PTE) Parameters**

- B.1. Permitted Capacity.** The maximum process/transfer/throughput rate of clinker is 100 tons/hour. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and, and, Application received June 13, 1996, for 0530021-002-AV]
- B.2. Emissions Unit Operating Rate Limitation After Testing.** See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]
- B.3. Method of Operation.** The emissions unit receives clinker from trucks from a below-grade receiving hopper and transfers the clinker using a belt conveyor and a deep-bucket conveyor system. [Rule 62-213.410, F.A.C.; and, AC27-118680, Specific Condition 2]
- B.4. Water Spray System.** A water spray system shall be used as necessary to control fugitive dust emissions during clinker unloading operations from train cars or trucks to the receiving hopper. [AC27-118680, Specific Condition 7]
- B.5. Hours of Operation.** This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [AC27-118680, Specific Condition 2]

**Emission Limitations and Standards**

Unless otherwise specified, the averaging times for Specific Conditions **B.6. - B.7.** are based on the specified averaging time of the applicable test method.

- B.6. Particulate Matter.** The allowable particulate matter emissions from the clinker handling system shall not exceed 0.7 lb/hr. [AC27-118680, Specific Condition 1]
- B.7. Visible Emissions.** Visible emissions shall not exceed 10 percent opacity. Compliance with the particulate matter emissions limit in Specific Condition **B.6.** shall be assumed if the visible emissions limit in this condition is met. However, if visible emissions exceed 10 percent opacity, then the owner or operator shall install hoods, ducts, and air pollution control equipment that will reduce the particulate matter emissions to the standard listed in Specific Condition **B.6.** [AC27-118680, Specific Condition 3; and, 40 CFR 63.1348]

**Excess Emissions**

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

- B.8. Excess Emissions Allowed.** Excess emissions resulting from startup, shutdown or malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection B. Brooksville Portland Cement Line 1 – Clinker Receiving/Handling System

excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]

- B.9. Excess Emissions Prohibited.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

#### **Monitoring of Operations**

**B.10. Operations and Maintenance Plan.**

- a. *Plan Details.* Because this unit is considered an affected source under 40 CFR 63, Subpart LLL, the owner or operator shall have on file a written operations and maintenance plan for the unit at the site. Therefore, Appendix O and M (Operation and Maintenance Plan) (attached) is a part of this permit and this subsection. The plan shall include the following information:
- (1) Procedures for proper operation and maintenance of the affected source and air pollution control devices in order to meet the emission limits and operating limits of 40 CFR 63.1348 (See Specific Condition **B.7.**); and
  - (2) Procedures to be used to periodically monitor affected sources subject to opacity standards under 40 CFR 63.1348 (See Specific Condition **B.7.**). Such procedures must include the provisions of paragraphs 40 CFR 63.1350(a)(4)(i) through (a)(4)(iv).
    - (a) 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, 40 CFR Part 60. The test must be conducted while the affected source is in operation.
    - (b) If no visible emissions are observed in six consecutive monthly tests for any affected source, the owner or operator may decrease the frequency of 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 testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
    - (c) If no visible emissions are observed during the semi-annual test for any affected source, the owner or operator may decrease the frequency of testing from semi-annually to annually for that affected source. If visible emissions are observed during any annual test, the owner or operator must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
    - (d) If visible emissions are observed during any Method 22 test, the owner or operator must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A, 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.
    - (e) 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.
- b. *Compliance.* Failure to comply with any provision of the operations and maintenance plan developed in accordance with paragraph 40 CFR 63.1350(a) shall be a violation of the standard.  
[Rule 62-204.800, F.A.C.; and, 40 CFR 63.1350(a)(1) & (4) and (b)]

- B.11. Opacity Monitoring.** The owner or operator of an affected source subject to a limitation on opacity under 40 CFR 63.1348 (See Specific Condition **B.7.**) shall monitor opacity in accordance with the operation and maintenance plan developed in accordance with paragraph 40 CFR 63.1350(a). [Rule 62-204.800, F.A.C.; and, 40 CFR 63.1350(j)]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection B. Brooksville Portland Cement Line 1 – Clinker Receiving/Handling System**

**Test Methods and Procedures**

**B.12. Test Methods.** Required tests shall be performed in accordance with the following reference methods:

<b>Method</b>	<b>Description of Method and Comments</b>
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 40 CFR 60, Appendix A, and 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. [62-297.401, F.A.C., AC27-118680, Specific Condition 3.]

**B.13. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

**B.14. Annual Compliance Tests Required.** During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), each EU shall be tested to demonstrate compliance with the emissions standards for visible emissions. [Rule 62-297.310(7), F.A.C. Rule 62-297.401, F.A.C.; and, 40 CFR 63.1349(b)(2), and Permit No. AC27-118680]

**Recordkeeping and Reporting Requirements**

**B.15. Reporting Schedule.** The following reports and notifications shall be submitted to the Compliance Authority:

<b>Report</b>	<b>Reporting Deadline</b>	<b>Related Condition(s)</b>
Notice and Reporting of Malfunctions	Notice per occurrence; quarterly report on demand.	<b>B.16.</b>

[Rule 62-213.440, F.A.C.]

**B.16. Malfunctions.** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

**B.17. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

**Other Requirements**

**B.18. Exemption From Multiple Federal Requirements.** Portland Cement Line 1 is an affected facility subject to the provisions of 40 CFR 63, Subpart LLL. If an affected facility subject to 40 CFR 63, Subpart LLL has a different emission limit or requirement for the same pollutant under another regulation in title 40 of this chapter, the owner or operator of the affected facility must comply with the most stringent emission limit or requirement and is exempt from the less stringent requirement. In particular, refer to 40 CFR 60, Subpart F, Standards of Performance for Portland Cement Plants. [Rule 62-204.800, F.A.C. and 40 CFR 63.1356]

**B.19. Appendix NESHAP A.** The emissions units are subject to the attached Appendix NESHAP A - 40 CFR 63, Subpart A – General Provisions for NESHAP.

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection C. Brooksville Portland Cement Line 1 – In-Line Cement Kiln 1, In-Line Kiln/Raw Mill and Clinker Cooler 1**

**The specific conditions in this section apply to the following emissions unit:**

<b>EU No.</b>	<b>Brief Description</b>
020	In-Line Cement Kiln 1, In-Line Kiln/Raw Mill and Clinker Cooler 1

Portland Cement Line 1 is designed for 83 tons per hour (TPH) of cement clinker product. The CEMEX cement kiln 1, in-line kiln/raw mill and clinker cooler 1 share a common baghouse fabric filter system (for particulate matter emissions control) and stack with the CP&L power plant. Waste heat from the kiln is used to provide heat to the raw mill and the kiln preheater, which is used to drive off moisture from the materials used for making clinker. The movement of raw materials, recycled materials, and product are through enclosed transfer systems. All gas streams from the various transfer systems vent through a single baghouse system into the ambient air. The existing site is zoned for mining, so limestone and clay used in the production of cement are supplied on site. The kiln is allowed to fire bituminous coal, distillate and residual fuel oil, on-specification used oil, and shredded and whole tires. Continuous monitors are operated for opacity, NO<sub>x</sub>, SO<sub>2</sub>, and O<sub>2</sub>. The stack height is 300 feet, with an exit diameter of 16.0 feet and an exit temperature of 220° Fahrenheit (F). The nominal volumetric flow rate is 577,700 acfm (376,796 dscfm).

*{Permitting Note: This emissions unit activity is regulated under Rules 62-212.400 and 62-212.400(4), F.A.C., Prevention of Significant Deterioration (PSD-FL-091, -091A, B, C & D) and BACT, respectively; Power Plant Siting: PA 82-17 and PA 82-17(A thru K); and, Maximum Available Control Technology (MACT), 40 CFR 63, Subpart LLL, National Emissions Standards for Hazardous Air Pollutants from Portland Cement Manufacturing Industry, adopted in Rule 62-204.800, F.A.C.}*

**General**

**C.1. Performance Testing.** The owner or operator shall notify the Department prior to initiating any significant change in the feed or fuel used in the most recent compliant performance test for dioxins/furans (D/F) or PM. For purposes of this condition, significant means any of the following: a physical or chemical change in the feed or fuel; the use of a raw material not previously used; a change in the loss on ignition (LOI) of the fly ash; a change between non-beneficiated fly ash and beneficiated fly ash. Based on the information provided, the Department will determine if performance testing pursuant to 40 CFR 63.1349 will be required for the new feed or fuel. A significant change shall not include switching to a feed/fuel mix for which the permittee already tested in compliance with the dioxin/furan and PM emission limits. [62-4.070(3), F.A.C.]

**Essential Potential to Emit (PTE) Parameters**

**C.2. Permitted Capacity.**

- a. *Cement Kiln 1.* For the cement kiln 1, the maximum dry feed rate to the kiln is 127.0 tons/hour (138.0 tons/hour feed rate to the preheater).
- b. *Clinker Cooler 1.* For the clinker cooler 1, the maximum clinker production rate is 83.0 tons/hour.
- c. *In-line Kiln/Raw Mill.* For the in-line kiln/raw mill, the maximum processing rate is 138 tons/hour (dry basis).

[AC27-61016/PSD-FL-091; and, Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

**C.3. Hours of Operation.**

- a. *Hours.* The emissions units are allowed to operate continuously, i.e., 8,760 hours/year.
- b. *Tires.* Shredded and whole tire derived fuel (TDF) utilization shall not exceed 8,300 hours/year.

[AC27-61016/PSD-FL-091, Specific Condition 3; AC27-118674/PSD-FL-091A & B; and, AC27-222095/PSD-FL-091C, Specific Condition 3]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection C. Brooksville Portland Cement Line 1 – In-Line Cement Kiln 1, In-Line Kiln/Raw Mill and Clinker Cooler 1**

**C.4. Methods of Operation. Fuels.**

- a. The only fuels allowed to be fired are coal, No. 2 distillate fuel oil, residual fuel oil, "on-specification" used oil, and TDF.
- b. The maximum coal consumption in the cement kiln 1 is 10.3 tons/hour.
- c. The new No. 2 fuel oil shall be used for the cement kiln 1's startup/preheating operation.
- d. "On-specification" used oil is allowed to be fired as a blend with purchased fuel oil as a startup fuel only. The maximum on-specification used oil in the final storage tank blend of on-specification used oil and purchased oil shall not exceed 15%, by volume.
- e. The cement kiln 1's maximum utilization/firing rate of TDF shall not exceed 15.0 percent of the total Btu heat input, or 1.33 tons/hour. The TDF may be introduced at the base of the preheater (i.e., kiln 1's inlet). The firing of the TDF shall not commence or be conducted unless the kiln 1 has reached an operating temperature, which shall be measured at the cement kiln 1's inlet, of at least 1,400° F for one hour and the oxygen level in the kiln, as measured at the cement plant's induced draft fan, is at least 3 percent (1-hour average).

[Rule 62-213.410, F.A.C.; AC27-61016/PSD-FL-091, Specific Condition 7; AC27-118674/PSD-FL-091A & B; and, AC27-222095/PSD-FL-091C & D, Specific Condition 4]

**Emission Limitations and Standards**

Unless otherwise specified, the averaging times for Specific Conditions C.5. - C.8. are based on the specified averaging time of the applicable test method.

**C.5. Emission Limits.**

- a. *Cement Plant 1: Particulate Matter (PM), Sulfur Dioxide (SO<sub>2</sub>) and Nitrogen Oxides (NO<sub>x</sub>).* Based on a maximum preheater feed rate of 138.0 tons/hr to the kiln 1 and when only the cement plant 1 is in operation, the allowable pollutant emissions from the cement kiln 1 and/or clinker cooler 1 (from the main baghouse stack) shall not exceed the following:

Pollutant	Maximum Allowable Emission Limits		
	lb/ton of kiln feed	lbs/hr	tons/yr
PM (kiln 1 or in-line kiln/raw mill)	0.30	37.1	162
PM (clinker cooler 1)	0.10	12.4	54
PM (combined total: kiln 1 or in-line kiln/raw mill and clinker cooler 1)	0.40	49.5	216
SO <sub>2</sub>	0.6	50.0	219
NO <sub>x</sub>	2.9	359.0	1,572

[AC27-61016/PSD-FL-091, Specific Condition 2 and BACT; AC27-118674; 40 CFR 63.1343(a) and (b)(1); and, 40 CFR 63.1345(a)(1)]

- b. *Combined Cement Plant 1 and Power Plant Boiler: PM/PM<sub>10</sub>.* PM/PM<sub>10</sub> emissions from the combined cement plant 1 and power plant boiler shall not exceed 0.0135 pound per MMBtu heat input (25.0 pounds per hour at 1,850 MMBtu/hr heat input) plus 0.3 pound from cement kiln 1 and 0.1 pound from clinker cooler 1 per ton of kiln 1's feed (dry basis), averaging time per 40 CFR 60.46. The sampling time and sample volume for each run shall be at least 60 minutes and 0.85 dscm (30 dscf). The probe and filter holder heating systems in the sampling train shall be set to provide an average gas temperature of 160±14 °C (320±25 °F). [PA 82-17 and PA 82-17E; PSD-FL-090 and PSD-FL-090D, Specific Condition 2; and, BACT; 40 CFR 60.46]



### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection C. Brooksville Portland Cement Line 1 – In-Line Cement Kiln 1, In-Line Kiln/Raw Mill and Clinker Cooler 1

- c. *Combined Cement Plant 1 and Power Plant Boiler: SO<sub>2</sub>*. SO<sub>2</sub> emissions from the combined cement plant 1 and power plant boiler shall not exceed 1.2 pounds per MMBtu heat input, maximum two hour average, and 781 pounds per hour, maximum three hour average. [PA 82-17 and PA 82-17E; PSD-FL-090 and PSD-FL-090D, Specific Condition 2; and, BACT]
- d. *Combined Cement Plant 1 and Power Plant Boiler: NO<sub>x</sub>*. NO<sub>x</sub> emissions from the combined cement plant 1 and power plant boiler shall not exceed 0.7 pound per MMBtu heat input plus 2.9 pounds per ton of kiln 1's feed (dry basis), averaging time per Chapter 62-297, F.A.C., not to exceed 1,205 pounds per hour. [PA 82-17 and PA 82-17E; PSD-FL-090 and PSD-FL-090D, Specific Condition 2; and, BACT]
- e. *Combined Cement Plant 1 and Power Plant Boiler: Total Fluorides*. Total fluoride emissions from the combined cement plant 1 and power plant boiler shall not exceed 0.7 pound per hour. [PSD-FL-090, Specific Condition 2]
- f. *Combined Cement Plant 1 and Power Plant Boiler: Sulfuric Acid Mist*. Sulfuric acid mist emissions from the combined cement plant 1 and power plant boiler shall not exceed 1.7 pounds per hour. [PSD-FL-090, Specific Condition 2]
- g. *Combined Cement Plant 1 and Power Plant Boiler: Mercury*. Mercury emissions from the combined cement plant 1 and power plant boiler shall not exceed 0.03 pound per hour. [PSD-FL-090, Specific Condition 2]

#### C.6. Visible Emissions.

- a. *Cement Plant 1: Visible Emissions*. Visible emissions from the cement kiln 1, clinker cooler 1, or in-line kiln/raw mill shall not exceed 10 percent opacity. [AC27-61016/PSD-FL-091, Specific Condition 4 and BACT; AC27-118674, Specific Condition 4.; and, 40 CFR 63.1345(a)(2)]
- b. *Cement Plant 1: Visible Emissions*. For purposes of the MACT at 40 CFR 63, Subpart LLL, visible emissions from the cement kiln 1 or in-line kiln/raw mill shall not exceed 20 percent opacity. [40 CFR 63.1343(b)(2)]
- c. *Combined Cement Plant 1 and Power Plant Boiler*. Visible emissions from the combined cement plant 1 and power plant boiler shall not exceed 10% opacity, 6-minute average, except for one 6-minute period per hour of not more than 17% opacity. [PA 82-17; PSD-FL-090, Specific Condition 2; and, BACT]

#### C.7. Sulfur Dioxide - Sulfur Content. The maximum sulfur content of virgin fuel oil and/or the blend of on-specification used oil and purchased fuel oil is 1.5%, by weight, for the purpose of preheating the cement kiln 1. [AC27-222095/PSD-FL-091D]

#### C.8. Dioxins/Furans (D/F).

- a. *Emissions Limits Case 1*. 0.20 ng per dscm ( $8.7 \times 10^{-11}$  gr per dscf) toxicity equivalents (TEQ) corrected to seven percent oxygen; or
- b. *Emissions Limits Case 2*. No owner or operator of an existing in-line kiln/raw mill shall cause to be discharged into the atmosphere from these affected emissions units, any gases which contain dioxins/furans in excess of 0.40 ng/dscm ( $1.7 \times 10^{-10}$  gr/dscf) (TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate control device is 204 °C (400 °F) or less. [Rules 62-4.070(3) and 62-204.800, F.A.C.; and, 40 CFR 63.1343(a) and (b)(3)(i) & (ii)]

*{Permitting Note: This emissions limitation applies when the existing in-line kiln/raw mill are operating alone and when operating along with any other emissions unit(s).}*

#### C.9. “On-Specification” Used Oil. The burning of “on-specification” used oil is allowed at this facility in accordance with all other conditions of this permit and the following additional conditions:

- a. *Used Oil*. Only “on-specification” used oil generated at the CEMEX Company's Gregg Mine and the Cement Plant and Power Plant Complex can be blended with the purchased fuel oil, which is to be used only as a startup fuel for preheating the cement kiln 1. “On-specification” used oil is defined as each used oil delivery that meets the 40 CFR 279 (Standards for the Management of Used Oil) specifications listed

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below. Used oil that does not meet all of the following specifications is considered “off-specification” oil and shall not be fired.

<u>Constituent/Property</u> *	<u>Allowable Level</u>
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Flash Point	140 °F minimum

\* As determined by approved methods specified in EPA Publication SW-846 (Test Methods for Evaluating Solid Waste, Physical/Chemical Methods).

- b. *Hazardous Waste.* Permittee agrees that the used oil to be blended and burned at this facility shall not be a hazardous waste as defined in Rule 62-210.200, F.A.C., or 40 CFR Part 261, and will not include fuels or blended fuels consisting in whole or part of hazardous waste or which include mixtures of any solid waste generated from the treatment, storage, or disposal of hazardous waste, and such burning shall be in compliance with Section 403.769(3), F.S.  
[AC27-222095/PSD-FL-091D, Specific Condition 19; and, 40 CFR 279.11]

**C.10. Operating Limits for Kilns and In-line Kiln/Raw Mills.**

- a. *Temperature.* The owner or operator of a kiln subject to a D/F emission limitation under 40 CFR 63.1343 must operate the kiln such that the temperature of the gas at the inlet to the kiln particulate matter control device (PMCD) does not exceed the applicable temperature limit specified in paragraph 40 CFR 63.1344(b). The owner or operator of an in-line kiln/raw mill subject to a D/F emission limitation under 40 CFR 63.1343 must operate the in-line kiln/raw mill, such that,
- (1) When the raw mill of the in-line kiln/raw mill is operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, specified in paragraph 40 CFR 63.1344(b) and established during the performance test when the raw mill was operating is not exceeded.
  - (2) When the raw mill of the in-line kiln/raw mill is not operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, specified in paragraph 40 CFR 63.1344(b) and established during the performance test when the raw mill was not operating, is not exceeded.
- b. *Temperature Limit.* The temperature limit for affected sources meeting the limits of paragraph 40 CFR 63.1344(a) or paragraphs 40 CFR 63.1344(a)(1) and (a)(2) is determined in accordance with 40 CFR 63.1349(b)(3)(iv).  
[Rule 62-204.800, F.A.C.; and, 40 CFR 63.1344(a)(1) & (2) and (b)]

**Excess Emissions**

Rule 62-210.700 (Excess Emissions), F.A.C., cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

- C.11. Excess Emissions Allowed.** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (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 unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]

- C.12. Excess Emissions Prohibited.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

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**Monitoring of Operations**

- C.13. Instrument Calibration.** Instruments shall be calibrated and maintained to continuously measure the amounts of coal used in the kiln 1, materials fed to the kiln 1, and clinker cooler 1. [AC27-61016/PSD-FL-091, Specific Condition 8; and, AC27-118674]
- C.14. Tire-Derived Fuel.** The utilization/firing rate of tire-derived fuel (TDF) shall be quantified (weighed) continuously and recorded. [AC27-222095 and PSD-FL-091C, Specific Condition 5]

**Continuous Monitoring Requirements**

- C.15. Nitrogen Oxide.** The owner or operator shall continuously monitor NO<sub>x</sub> concentrations in the stack gases in the CP (cement and power) main plant stack, and convert the same to a mass emission rate (lbs/hr on a 1-hour average) using a FDEP approved conversion factor or a flow monitor. The stack gas flow determined by the approved conversion factor or flow monitor and data from the NO<sub>x</sub> emissions monitor (EPA-approved or equivalent) operating in the CP main plant stack shall be used to continuously determine the stack gas flow rate and NO<sub>x</sub> concentration. The monitors shall be maintained and calibrated periodically to insure adequate data. The data shall be recorded on an hourly basis and used in the determination of NO<sub>x</sub> stack emissions. The calibration of the continuous monitoring system for NO<sub>x</sub> shall be in accordance with 40 CFR 60, Appendix B, Performance Specification 2. [AC27-222095 and PSD-FL-091C, Specific Condition 10; and, 40 CFR 60, Appendix B]
- C.16. Sulfur Dioxide and Opacity.** The permittee shall operate and maintain continuous monitoring devices for the power boiler/cement plant 1 main stack exhaust for sulfur dioxide and opacity to demonstrate compliance with the pound per hour SO<sub>2</sub> emissions limits and the visible emissions limits, respectively, in Specific Conditions C.5. and C.6., respectively. The owner or operator shall continuously monitor SO<sub>2</sub> concentrations in the stack gases in the CP (cement and power) main plant stack, and convert the same to a mass emissions rate (lbs/hr) using a FDEP approved conversion factor or a flow monitor. The monitoring devices shall meet the applicable requirements of Chapter 62-297, F.A.C., and 40 CFR 60.45 and 40 CFR 60.13, including certification of each device. The permittee shall provide the Department with 30 days notice on each recertification. [PA 82-17 & PA 82-17K, Specific Condition B.1.; 40 CFR 60, Appendix B; Rule 62-297.520, F.A.C.; PSD-FL-090; and, 40 CFR 63.1350(c)(1)]
- C.17. Oxygen (O<sub>2</sub>).** The owner or operator shall calibrate, maintain and operate a continuous emissions monitoring system to measure O<sub>2</sub> emissions in the cement kiln and clinker cooler control device stack; and, the boiler stack. The calibration of the continuous monitoring system shall be in accordance with 40 CFR 60, Appendix B, Performance Specification 3. The oxygen monitor shall be used with automatic feedback or manual controls to continuously maintain air/fuel ratio parameters at an optimum. [Rule 62-297.520, F.A.C.; 40 CFR 60, Appendix B; PA 82-17 & PA 82-17E, Specific Condition B.1. ; and, AC27-222095]

**Test Methods and Procedures**

- C.18. Test Methods.** Required tests shall be performed in accordance with the following reference methods:

<b>Method</b>	<b>Description of Method and Comments</b>
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Method for Determining Particulate Matter Emissions
6 or 6C	Determination of Sulfur Dioxide Emissions from Stationary Sources
7 or 7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
8	Determination of Sulfuric Acid Mist Emissions from Stationary Sources

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<b>Method</b>	<b>Description of Method and Comments</b>
9	Visual Determination of the Opacity of Emissions from Stationary Sources
13	Determination of Total Fluorides Emissions from Stationary Sources
23	Determination of Dioxins/Furans Emissions from Stationary Sources
29	Determination of Metals Emissions from Stationary Sources (Mercury)

The above methods are described in 40 CFR 60, Appendix A, and 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, 62-297.310(7), 62-297.401, F.A.C., AC27-61016/PSD-FL-091, Specific Conditions 4, 5 and 6; and, AC27-118674, 40 CFR 63.1349]

- C.19. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]
- C.20. Annual Compliance Tests Required.** During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), each EU shall be tested to demonstrate compliance with the emissions standards for PM, NO<sub>x</sub>, SO<sub>2</sub>, and visible emissions as follows:
- a. *Combination.* Tests shall be performed during normal operations when the power plant and cement plant 1 are operating in combination; and,
  - b. *Alone.* Tests shall also be performed at or near maximum production when the cement plant 1 is operating alone.
- [Rule 62-297.310(7), F.A.C.; and Permit No. AC27-61016/PSD-FL-091; and, AC27-118674; PSD-FL-090 and PSD-FL-091; PA 82-17E, Specific Condition C.5]
- C.21. Compliance Tests Prior To Renewal.** In addition to the annual compliance tests specified above, compliance tests shall also be performed for sulfuric acid mist, total fluorides, dioxins/furans and mercury prior to obtaining a renewed operating permit to demonstrate compliance with the emission limits in Specific Conditions **C.5. – C.8.** [Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.]
- C.22. On-specification Used Oil.** Fuel analysis shall be in accordance with 40 CFR 266.43(b)(1) & (6). A sample shall be taken from the outlet of the blend tank on the first working day (i.e., Monday - Friday; exceptions: holidays) of each month, if any used oil was placed in the blend tank the previous month; or, the sample can be taken directly from the used oil mobile collection tank after final collection and prior to the time of initial transfer; but, that sampling frequency shall be no less than quarterly and the sampling methodology shall have been established with the Department and Hernando County prior to sampling. Upon taking a sample, the sample shall be analyzed for the following constituent/property and associated unit and using the following test methods (or their latest version):

<u>Constituent/Property</u> *	<u>Unit</u>	<u>Test Method</u>
Arsenic	ppm	EPA SW-846 (3040-7130)
Cadmium	ppm	EPA SW-846 (3040-7130)
Chromium	ppm	EPA SW-846 (3040-7130)
Lead	ppm	EPA SW-846 (3040-7130)
Total Halogens	ppm	ASTM E442
Sulfur	%	ASTM D2622-92, ASTM D4294-90, or both ASTM D4057-88 & ASTM D129-91
Flash Point	°F	ASTM D93
Heat of Combustion	Btu/gal	ASTM D240-76
Density	lbs/gal	ASTM D1298-80

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Note: Other test methods may be used only after receiving written approval from the Department.

[AC27-222095 and PSD-FL-091D, Specific Condition 19]

**Recordkeeping and Reporting Requirements**

**C.23. Reporting Schedule.** The following reports and notifications shall be submitted to the Compliance Authority:

<b>Report</b>	<b>Reporting Deadline</b>	<b>Related Condition(s)</b>
Notice and Reporting of Malfunctions	Notice per occurrence; report quarterly on demand.	<b>C.25.</b>
Notice of Fuel Analysis and Production Rates	Recorded Daily and Reported Quarterly.	<b>C.26.</b>
TDF Deliveries	Daily.	<b>C.27.</b>
Used Oil Analysis	Quarterly.	<b>C.28.</b>
Annual Operation Report	Annual.	<b>C.29.</b>

[Rule 62-213.440, F.A.C.]

**C.24. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

**C.25. Malfunctions.** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

**C.26. Fuel Analysis and Production Rates.** The records of fuel usage with the fuel analysis and the daily production rates (including clinker production rate) and kiln feed rates shall be recorded and reported quarterly to the Department's Southwest District office. [AC27-61016/PSD-FL-091; AC27-118674]

**C.27. Tire-Derived Fuel.** The quantity of all deliveries of TDF shall be documented and kept on record/file. [AC27-222095 and PSD-FL-091C, Specific Condition 6]

**C.28. On-specification Used Oil.**

- a. *Sample Analysis.* The results of each sample analysis shall be submitted to the Department's Southwest District and the Hernando County Planning offices within 30-days after the sample is taken.
- b. *Reports.* The dates and quantities of both on-specification used oil and purchased fuel oil transferred to the cement kiln's storage tank shall be reported quarterly (i.e., Jan.-Mar., April-June, July-Sept., and Oct.-Dec.) to the Department's Southwest District and the Hernando County Planning offices and due during the month following the ending quarter.

[AC27-222095 and PSD-FL-091D, Specific Condition 19]

**C.29. Annual Operation Report.** An Annual Operation Report (AOR) shall be submitted to the Department's Southwest District office by March 1 reporting the kiln's averaged process input rate and clinker production of each month of the previous year. The AOR shall also contain the total amount, separately and by weight, of shredded and whole tires utilized/fired during the previous year. [AC27-222095 and PSD-FL-091C]

## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

### Subsection C. Brooksville Portland Cement Line 1 – In-Line Cement Kiln 1, In-Line Kiln/Raw Mill and Clinker Cooler 1

#### Other Requirements

##### Water Spray/Injection System on the Downcomer of the Kiln 1 Preheater Tower

*{Permitting Note: The water spray/injection system, through the use of micro-droplet water sprays, provides sufficient cooling to rapidly quench/cool the temperature of the gas leaving the preheater below the D/F formation temperature zone of 750 – 450°F, thereby minimizing the formation of D/F. The installed Turbosonic system currently consists of 3 spray lances, each equipped with micro-droplet spray nozzles. (Based on operation of the system, additional spray nozzles may need to be added to enhance the performance of the system to adequately cool the gases). The system is only required to be used during periods of operation of Kiln 1 when the raw mill and the power plant are both out of service at the same time.}*

#### Performance Restrictions

- C.30. Kiln 1 Water Injection/Spray Tower Operating Hours.** The hours of operation of the Kiln 1 Water Injection/Spray system are not limited (i.e., permitted for operation 8,760 hours per year). [Rules 62-4.070(3) and 62-210.200(Potential to Emit), F.A.C.; and, 0530021-022-AC, Specific Condition A.2. and 0530021-026-AC]
- C.31. Kiln 1 Water Injection/Spray Tower Operation Requirements.**
- Required Periods of Operation.** The Kiln 1 Water Injection/Spray Tower shall be in service at all times that Kiln 1 is operating (including startup defined as a minimum kiln feed rate of 80 TPH) with the raw mill down (i.e., not operating) (RMD) and the power plant is also down (i.e., not operating) (PPD) (i.e., operating in the RMD/PPD mode of operation).
  - Maximum Downcomer Exit/Fan Inlet Gas Temperature.** The Kiln 1 Downcomer Water Spray/Injection System shall be operated such that the maximum gas temperature at the downcomer exit/kiln fan inlet thermocouple (at the K13 thermocouple - ID T1207A) shall not exceed 395° F on a 60 minute rolling average basis (as soon as feasible, but no later than within 2 hours of commencing water injection) unless otherwise established by D/F compliance testing and approved by the Department in writing.
  - Maintenance of Proper Operation.** CEMEX shall maintain proper operation of the water spray/injection system by removal, as needed, of any solids buildup in the downcomer resulting from the water sprays. If necessary, the buildup removal shall be accomplished by kiln shutdown, installation of a drop-out chamber or other suitable method.
- [Rule 62-4.070(3) and 62-210.650, F.A.C.; 0530021-022-AC, Specific Condition A.3. and 0530021-026-AC]

#### Testing Requirements

- C.32. Compliance Tests.** D/F compliance testing in the raw mill down/power plant down (RMD/PPD) mode of operation shall be conducted in accordance with Specific Condition **C.34.**, below, and any applicable Department consent order in effect for this emission unit. [Rule 62-4.070(3), F.A.C.; and, 0530021-022-AC, Specific Condition A.4. and 0530021-026-AC]
- C.33. Test Methods.** Required D/F tests shall be performed in accordance with the reference method(s) specified in this permit and NESHAP 40 CFR 63 Subpart LLL, and any applicable Department consent order in effect for this emission unit. [Rules 62-204.800(11)(b) and 62-297.100, F.A.C.; Appendix A of 40 CFR 63; and, 0530021-022-AC, Specific Condition A.5. and 0530021-026-AC]
- C.34. D/F Compliance Testing Frequency in the PPD/RMD Mode of Operation.** In order to provide reasonable assurance of ongoing compliance with the D/F standard while operating in the Power Plant Down Raw Mill Down (PPD/RMD) mode of operation, the permittee shall conduct special D/F compliance tests in this mode of operation once every federal fiscal year (i.e., October 1 – September 30), with no two tests less than nine months or more than 15 months apart from the previous test. Testing shall be continued on this schedule until three consecutive FFY compliance tests showing compliance with the applicable D/F standard are conducted,

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#### Subsection C. Brooksville Portland Cement Line 1 – In-Line Cement Kiln 1, In-Line Kiln/Raw Mill and Clinker Cooler 1

after the final issuance date of permit 0530021-022-AC. At that time, the D/F compliance test frequency reverts back to the once every 30-month frequency required by NESHAP Subpart LLL 40 CFR 63.1349(d). [Rules 62-4.070(3), 62-213.440(1)(b), and 62-297.310(7)(b), F.A.C.; and, 0530021-022-AC, Specific Condition A.6. and 0530021-026-AC]

#### **Monitoring Requirements**

- C.35. Downcomer Exit/ID Fan Inlet Gas Temperature Monitoring.** The owner or operator shall continuously monitor temperature at the downcomer exit/K13 ID kiln fan inlet area (at the K13 thermocouple – Thermocouple ID T1207A), during all periods of operation of Kiln 1 when the raw mill is down and the power plant is down (i.e., during PPD/RMD mode of operation). The monitoring system shall also determine and show rolling 60-minute average temperature. [0530021-022-AC, Specific Condition A.7. and 0530021-026-AC]
- C.36. Water Spray/Injection System Water Flow Rate.** The owner or operator shall continuously monitor the rate of water flow through the Kiln 1 spray system nozzles (gallons/minute or gallons/hour) during all periods of operation of Kiln 1 when the raw mill is down and the power plant is down (i.e., during PPD/RMD mode of operation). [0530021-022-AC, Specific Condition A.8. and 0530021-026-AC]

#### **Notification Requirements**

- C.37. Test Notification.** The owner or operator shall notify the Compliance Authority in writing prior to any required tests in accordance with this permit, 40 CFR 63 Subpart LLL, and any applicable Department consent order in effect for this emission unit. [Rules 62-4.070(3), 62-204.800(11) and 62-297.310(7)(a)9., F.A.C.; 40 CFR 63 Subparts A and LLL; and, 0530021-022-AC, Specific Condition A.9. and 0530021-026-AC]

*{Permitting Note: The notification should also include the relevant emission unit ID No(s), test method(s) to be used, and pollutants to be tested.}*

#### **Records and Reports Requirements**

- C.38. Kiln 1 Operational Data.** The owner or operator shall keep records of all periods of operation of Kiln 1. The records shall show each time that the raw mill was taken out of service or put back in service, and each time that the power plant was taken out of service or put back in service (records shall indicate when the power plant was in start-up mode). For all periods of Kiln 1 operation when the raw mill is down and the power plant is down (i.e., the RMD/PPD mode of kiln operation), the records shall show the operating status of the Kiln 1 Downcomer Water Spray/Injection System (in or out of service). [0530021-022-AC, Specific Condition A.10. and 0530021-026-AC]
- C.39. Kiln 1 Downcomer Water Spray/Injection System Operational Data.** The owner or operator shall keep continuous records of the following Kiln 1 Downcomer Water Spray/Injection System operational data during all periods of operation of Kiln 1 when the raw mill is down and the power plant is down (i.e., the RMD/PPD mode of kiln operation):
- Gas Temperature.** The gas temperature (°F) at the downcomer exit/fan inlet (at the K13 thermocouple – Thermocouple ID T1207A) (the monitoring system shall also determine and show rolling 60-minute rolling average temperatures); and
  - Water Flow Rate.** The Kiln 1 Downcomer Water Spray/Injection System water flow rate (gallons/minute) (the monitoring system shall also determine and record rolling 60 minute rolling average gallon/minute flow rate).

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[0530021-022-AC, Specific Condition A.11. and 0530021-026-AC]

- C.40. Record Maintenance.** The owner or operator shall maintain the above records on site in a form suitable and readily available for inspection and review. The records shall be retained for at least five years following the date of each occurrence, measurement, or record. [Rule 62-213.440(1)(b)2.b., F.A.C.; and, 0530021-022-AC, Specific Condition A.12. and 0530021-026-AC]
- C.41. Additional Test Report Requirements Reports.** In addition to other applicable test report requirements, the owner or operator shall include the following Kiln 1 Downcomer Water Spray/Injection System operation information with all test reports for testing conducted during operation of Kiln 1 when the raw mill is down and the power plant is down (i.e., in the RMD/PPD mode of kiln operation):
- Operating Status.* Operating status of the Kiln 1 Downcomer Water Spray/Injection System.
  - Water Flow Rate Average.* Average Kiln 1 Downcomer Water Spray/Injection System water flow rate (hourly average gallons/minute) for each run of the test; and
  - Inlet Gas Temperature Average.* Average downcomer exit/ID fan inlet gas temperature as measured by Thermocouple ID T1207A for each run of the test
- [Rule 62-297.310(8), F.A.C.; and, 0530021-022-AC, Specific Condition A.13. and 0530021-026-AC]

#### **Additional Requirements**

- C.42. Maintenance of Proper Operation.**
- Manufacturer Specifications.* The permittee shall maintain the Downcomer Water Spray System nozzles, valves, piping and other associated equipment in accordance with the manufacturer's specification and recommendations.
  - Solid Removal.* The permittee shall maintain proper operation of the water spray/injection system by removal, as needed, of any solids buildup in the downcomer resulting from the water sprays. If necessary, the buildup removal shall be accomplished by kiln shutdown, installation of a drop-out chamber or other suitable method.
- [Rules 62-4.070(3) and 62-210.650, F.A.C.; and, 0530021-022-AC, Specific Condition A.14. and 0530021-026-AC]
- C.43. Facility Startup, Shutdown and Malfunction (SSM) Plan.** The facility owner or operator shall have on file a Startup, Shutdown and Malfunction (SSM) Plan required by NESHAP Subpart A 40 CFR 63.6(e)(3) that includes the Kiln 1 Downcomer Water Spray/Injection System. The plan shall be available upon request for inspection and copying by the Department. [Rule 62-204.800(11)(d), F.A.C.; NESHAP Subpart A 40 CFR 63.6(e)(3); and, 0530021-022-AC, Specific Condition A.15. and 0530021-026-AC]

#### **Monitoring of Operations**

- C.44. CAM Plan.** This emissions unit is subject to the Compliance Assurance Monitoring (CAM) requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), F.A.C. [40 CFR 64; Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]

#### **Other Requirements**

- C.45. Exemption From Multiple Federal Requirements.** Portland Cement Line 1 is an affected facility subject to the provisions of 40 CFR 63, Subpart LLL. If an affected facility subject to 40 CFR 63, Subpart LLL has a different emission limit or requirement for the same pollutant under another regulation in title 40 of this chapter, the owner or operator of the affected facility must comply with the most stringent emission limit or requirement and is exempt from the less stringent requirement. In particular, refer to 40 CFR 60, Subpart F, Standards of Performance for Portland Cement Plants. [Rule 62-204.800, F.A.C. and 40 CFR 63.1356]



**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

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**Subsection C. Brooksville Portland Cement Line 1 – In-Line Cement Kiln 1, In-Line Kiln/Raw Mill and Clinker Cooler 1**

**C.46. Attachments.**

- a. *NESHAP and NSPS.* The emissions unit is also subject to Appendix NESHAP A - 40 CFR 63, Subpart A, General Provisions for NESHAP, Appendix NESHAP, Subpart LLL – Portland Cement Manufacturing Industry, Appendix NSPS, Subpart A – General Provisions and Appendix NSPS, Subpart F – Portland Cement Plants and they are attached
- b. *O and M Plan.* The emissions units are subject to the attached Operation and Maintenance (O and M) Plan.  
[40 CFR 63.1350; Rule 62-213.440, F.A.C]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection D. Brooksville Portland Cement Line 2 – In-Line Cement Kiln 2, Pre-Heater, Pre-Calciner and Clinker Cooler**

**The specific conditions in this section apply to the following emissions unit:**

<b>EU No.</b>	<b>Brief Description</b>
044	In-Line Cement Kiln 2, Pre-heater, Pre-Calciner and Clinker Cooler

Portland Cement Line 2 is designed for 156 TPH of cement clinker production. This amount of clinker when mixed with calcium sulfate (gypsum) will produce 240 tons of Portland cement per hour. The in-line kiln/raw mill and clinker cooler vent through a single baghouse system into the ambient air. Waste heat from the kiln is used to provide heat to the raw mill and the kiln preheater, which is used to drive off moisture from the materials used for making clinker. The kiln is allowed to fire bituminous coal, petroleum coke, natural gas, flyash, propane, distillate fuel oil, on-specification oil, and whole tires. NO<sub>x</sub> emissions are controlled by the use of Selective Non-catalytic Reduction (SNCR) technology. SO<sub>2</sub> emissions are controlled by use of low sulfur raw materials and inherent scrubbing by finely divided lime in the calciner and limestone in the raw mill. CO and VOC emissions are controlled by promoting complete combustion in the kiln and calciner and minimizing carbon and oily content of raw materials. PM/PM<sub>10</sub> from the pyroprocessing system and the clinker cooler is controlled by a large fabric filter baghouse. Mercury emissions are controlled by material balance. Continuous emissions monitors are operated for opacity, NO<sub>x</sub>, SO<sub>2</sub>, and O<sub>2</sub>. Line 2 commenced operation on November 29, 2008. The stack characteristics for this unit are: Stack Height = 320 feet, Exit Diameter = 13.6 feet, Actual Volumetric Flow Rate = 329, 700 acfm and Exit Temperature 500° F.

*{Permitting Note: This emissions unit is subject to 40 CFR 63 Subpart LLL, National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry (40 CFR 63.1340 – 63.1359), adopted by reference into Rule 62.204.800, F.A.C. and 40 CFR 63 Subpart A – General Provisions. If an affected facility subject to 40 CFR 63, Subpart LLL has a different emission limit or requirement for the same pollutant under another regulation in title 40 of this chapter, the owner or operator of the affected facility must comply with the most stringent emission limit or requirement and is exempt from the less stringent requirement. In particular, refer to 40 CFR 60, Subpart F, Standards of Performance for Portland Cement Plants. This emissions unit is also subject to the requirements of the state rules, particularly Rule 62-212.400, F.A.C., Prevention of Significant Deterioration and Rule 62-296.407, F.A.C., Portland Cement Plants.}*

**Essential Potential to Emit (PTE) Parameters**

**D.1. Hours of Operation.** These units may operate continuously, i.e., 8,760 hours per year. [Rules 62-4.070(3) and 62-210.200, F.A.C., Definitions -- Potential to Emit (PTE), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.1.]

**D.2. Fuels.**

- a. Fuels fired in the pyroprocessing system (kiln and calciner) shall not exceed a total maximum heat input of 490 million Btu per hour (MMBtu/hr) and shall consist only of natural gas, coal, distillate fuel oil, petroleum coke, flyash, on-spec fuel oil, and whole tires. Propane may be fired and shall not exceed a maximum hourly rate of 5,200 gallons/hr.
- b. Whole tires may be fired directly in the pyroprocessing system at a rate not to exceed a maximum heat input of 30% of the total pyroprocessing heat input, not to exceed 147 MMBtu/hr at any time. The remaining 70% of the total pyroprocessing heat input shall be derived from firing coal, flyash, petroleum coke, natural gas, propane or distillate fuel oil. Whole tires fired in this manner shall be fed into the kiln system near the product end (hot side) of the kiln or at the transition section between the base of the precalciner and the point where gases exit the kiln. The tire feeder mechanism at the feed end (cold side) of the kiln shall be designed with a double airlock.
- c. Coal and/or petroleum coke shall not exceed 20.0 tons per hour.
- d. Natural gas shall not exceed 466,000 cf/hr.

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#### Subsection D. Brooksville Portland Cement Line 2 – In-Line Cement Kiln 2, Pre-Heater, Pre-Calcliner and Clinker Cooler

e. Distillate fuel oil shall not exceed 3,600 gallons/hr.  
[Rules 62-4.070(3) and 62-210.200, F.A.C., Definitions -- Potential to Emit (PTE), F.A.C.; and, 0530021-012-AC, 0530021-015-AC, 0530021-018-AC/PSD-FL-351C, Specific Condition A.2., and 0530021-033-AC, Specific Condition A.2.]

**D.3. Fuels and Materials Not Allowed.** The owner or operator shall not introduce hazardous wastes, petroleum contaminated soil or materials, used oil, oil fuels, or solid fuels other than those allowed by this permit, or solid wastes other than whole tires into any part of the process or emission control equipment. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.3.]

**D.4. Process Rate Limitations.** The kiln shall not process more than 258 tons per hour of dry preheater feed and dry flyash and shall not exceed 5,775 tons in any 24-hour period (240.6 tons per hour, 24 hour average). The kiln shall not produce more than 156 tons of clinker per hour, and 3,500 tons in any 24-hr period (146 tons per hour, 24 hour average). Process and production rates shall be further limited to 2,107,875 tons of dry preheater feed and dry flyash in any consecutive 12-month period (5,775 tons/day) and 1,277,500 tons of clinker in any consecutive 12-month period (3,500 tons/day).

The clinker production rate identified in the above paragraph shall be determined by the following equation:

$$\text{Clinker Production} = [(\text{Feed})(\text{Kiln Feed LOI Factor}) + (\text{Fly Ash Injection})(\text{Fly Ash LOI Factor})]$$

Where:

- Fly ash is determined from the rotary feed system or equivalent.
- Loss-on-ignition (LOI) for the kiln feed and fly ash is based on a monthly average determined from daily measurements.

[Rule 62-210.200, F.A.C., Definitions -- Potential to Emit (PTE); 0530021-018-AC/PSD-FL-351C, Specific Condition A.4., and 0530021-033-AC, Specific Condition A.4. ]

**D.5. Cement Kiln Dust.** Cement kiln dust shall be recirculated in the process and shall not be directly discharged from process or emission control equipment unless authorized by the Department. Cement kiln dust removed from process equipment during maintenance and repair shall be confined and controlled at all times and shall be managed in accordance with the applicable provisions of 40 CFR 261. [0530021-018-AC/PSD-FL-351C, Specific Condition A.6.]

**D.6. Whole Tire Management.** Tires and tire derived fuel shall be stored, handled and managed in accordance with the provisions of Chapter 62-711, F.A.C. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.7.]

**D.7. Performance Testing.** The owner or operator shall notify the Department prior to initiating any significant change in the feed or fuel used in the most recent compliance performance test for dioxin/furan (D/F) or particulate matter (PM). For purposes of this condition, significant means any of the following: a physical or chemical change in the feed or fuel; the use of a raw material not previously used; a change in the loss on ignition (LOI) of the flyash; a change between non-beneficiated flyash and beneficiated flyash. Based on the information provided, the Department will promptly determine if performance testing pursuant to 40 CFR 63.1349 will be required for the new feed or fuel. A significant change shall not include switching to a feed/fuel mix for which the permittee already tested in compliance with the dioxin/furan and PM emission limits. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.11.]

#### **Emission Limitations and Standards**

*{Permitting Note: Unless otherwise specified, the averaging times for Specific Conditions D.8., D.9. and D.10 are based on the specified averaging times of the applicable test method.}*

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*{Permitting Note: The emission limits for particulate matter and visible emissions imposed by Rule 62-212.400 and BACT are as stringent or more stringent than the limits imposed by the applicable NSPS or NESHAP rules. However, the BACT requirements do not waive or vary any monitoring or record keeping requirements of the NSPS and NESHAP rules.}*

**D.8. Mercury (Hg) into the Pyroprocessing System Limited.** The total mass of mercury compounds introduced into the pyroprocessing system, expressed as Hg, in raw mill feed and fuels shall not exceed 122 pounds per consecutive 12-month period. [62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.10.]

**D.9. Emissions Limits.** Emissions unit 044 has one emission point, the stack of the Kiln #2, Pre-Heater, Pre-Calciner and Clinker Cooler designated by the permittee as 331.BF300. Particulate matter emissions from this emissions unit are controlled by a baghouse. Emissions from this unit shall not exceed the following limits for the following pollutants.

POLLUTANT	EMISSION LIMIT		AVERAGING TIME	BASIS
PM	0.112 lb/ton of dry preheater feed; 0.185 lb/ton of clinker	28.8 lb/hr	3 hours <sup>4</sup>	BACT
PM <sub>10</sub>	0.097 lb/ton of dry preheater feed; 0.160 lb/ton of clinker	25.0 lb/hr	3 hours <sup>4</sup>	BACT
SO <sub>2</sub>	0.185 lb/ton of clinker	28.8 lb/hour	24 hours <sup>5</sup>	BACT
NO <sub>x</sub> <sup>2</sup>	1.56 lb/ton of clinker <sup>1</sup>	227 lb/hour <sup>1</sup>	30 day	BACT
CO	2.88 lb/ton of clinker	450.0 lb/hour	24 hours <sup>6</sup>	BACT
VOC	0.096 lb/ton of clinker <sup>3</sup>	15.0 lb/hour <sup>3</sup>	30 days <sup>7</sup>	BACT
VE	10% opacity		6 minutes <sup>8</sup>	BACT
Mercury	41 µg/dscm <sup>9</sup>			Subpart LLL <sup>9</sup>
		122 lb/yr	Annual	Avoid PSD

- NO<sub>x</sub> emissions shall not exceed 227 lbs/hr (30-day rolling average) until a production rate of 3,500 tons per day of clinker is reached. Emissions of NO<sub>x</sub> shall not exceed neither the pound per ton of clinker nor the pound per hour limits shown in the table once a clinker production rate of 3,500 tons per day is reached or June 30, 2012, whichever comes first.
- NO<sub>x</sub> emissions shall not exceed the limits shown in the table.
- VOC emissions shall be expressed as propane.
- The averaging times for PM and PM<sub>10</sub> correspond to the required length of sampling for the initial and subsequent emission tests.
- The averaging time for SO<sub>2</sub> shall be a rolling average that shall be recomputed every hour from the individual hourly averages for the current hour and the preceding 23 hours.
- The CO emissions limit is a 24-hour limit. The averaging time for CO shall be a rolling average that shall be recomputed every hour from the individual hourly averages for the current hour and the preceding 23 hours.
- The averaging time for VOC shall be a 30-day block average specified in 40 CFR 63.1350(h).
- The averaging time for visible emissions shall be a 6-minute block average that shall be computed from a minimum of one measurement every 15 seconds. The 6 minute block averages shall start at the beginning of each hour.
- Micrograms per dry standard cubic meter (µg/dscm) per 76518 Federal Register / Vol. 71, No. 244 / Wednesday, December 20, 2006 / Rules and Regulations. "As an alternative to meeting the 41 µg/dscm standard you (the operator) may route the emissions through a packed bed or spray tower wet scrubber

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with a liquid-to-gas ratio of 30 gallons per 1000 actual cubic feet per minute or more and meet a site-specific emissions limit based on the measured performance of the wet scrubber”.

*[Permitting Note: The “30-day rolling average NO<sub>x</sub> emission rate” is the arithmetic average of all hourly NO<sub>x</sub> emission data measured by the continuous emission monitoring equipment (converted to lb/ton of clinker and lb/hr) for a given operating day and the twenty-nine unit operating days immediately preceding that unit operating day.*

*Pursuant to 40 CFR 60, Subpart F, an operating day includes all valid data obtained in any daily 24-hour period during which the kiln operates and excludes any measurements made during the daily 24-hour period when the kiln was not operating.*

*A new 30-day average is calculated each unit operating day as the average of all hourly NO<sub>x</sub> emissions rates for the preceding 30 unit operating days if a valid NO<sub>x</sub> emission rate is obtained for at least 75 percent of all operating hours. Zero emissions from non-unit operating days shall not be included in the averaging period in order to show compliance with the emissions limits.}*

Note: The above emissions limits, along with annual production limits, effectively limit annual emissions to: PM, 117.6; PM<sub>10</sub>, 102.3; SO<sub>2</sub>, 117.6; NO<sub>x</sub>, 996.7 (after 180 days); CO, 1,840 (including 30-day average for first 180 days); and VOC, 61.3 tons per year. These equivalent ton per year numbers are based on 3,500 tons per day and 1,277,500 tons per year of clinker production.

[Rules 62-4.070(3), 62-212.400, F.A.C., BACT; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.12., 0530021-033-AC, Specific Condition A.11.]

**D.10. NSPS Particulate Matter and Visible Emissions Standards.** No owner or operator of a Portland cement kiln shall cause, permit, or allow the emission of particulate matter in excess of 0.30 pounds per ton to the kiln (dry basis, excluding fuel), or visible emissions the density of which is greater than 20 percent opacity. [Rule 62-296.407, F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.15.]

#### **Excess Emissions**

**D.11. Malfunction of the SNCR System.** Malfunction of the SNCR System is defined as any unavoidable mechanical and/or electrical failure that prevents introduction of ammonia based solutions into the kiln system. In accordance with the limits in Specific Condition **D.9.**, the exclusion of NO<sub>x</sub> data collected during periods of malfunction and/or repair of the SNCR system is allowed when demonstrating compliance with the 30 day NO<sub>x</sub> standard. No more than 6 hours per calendar day and no more than 30 hours in any 30 day operating block may be excluded. Within one working day of the occurrence, the permittee shall notify the Department’s Southwest District of any malfunction of the SNCR system. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.13.]

**D.12. Data Exclusion for CO.** In accordance with the limits in Specific Condition **D.9.**, the exclusion of CO data collected during periods of startup, shutdown, and malfunction of the kiln system is allowed when demonstrating compliance with the 24-hour lb/ton CO standard after the initial 180 day period after initial startup. No more than 7 hours per calendar day and no more than 28 hours in any calendar month may be excluded. Within one working day of the occurrence, the permittee shall notify the Department’s Southwest District of any startup, shutdown, or malfunction of the system which an exclusion of data will occur. [Rules 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.14.]

#### **Monitoring of Operations**

**D.13. CAM Plan.** This emissions unit is subject to the Compliance Assurance Monitoring (CAM) requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good

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reason to require compliance testing pursuant to Rule 62-297.310(7)(b), F.A.C. [40 CFR 64; Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]

**D.14. O&M Plan for Baghouses and ESP.** The owner or operator shall have on file an operation and maintenance plan (O&M plan). The O&M plan shall address the schedule for inspection of this equipment and required preventive maintenance and shall require records of the condition of the equipment upon each inspection and any maintenance activities performed. [Rule 62-4.070(3), F.A.C.; and 0530021-018-AC/PSD-FL-351C, Specific Condition A.8.]

**Continuous Monitoring Requirements**

**D.15. Continuous Emission Monitoring Systems.** The owner or operator shall calibrate, maintain, and operate a continuous emission monitoring (CEM) system in the in-line kiln/raw mill stack to measure and record the emissions of NO<sub>x</sub>, SO<sub>2</sub>, CO and VOC from the in-line kiln/raw mill, in a manner sufficient to demonstrate compliance with the emission limits of this permit. Compliance with the emission limit for NO<sub>x</sub> shall be based on a 30-day calendar rolling average that shall be recomputed daily from the individual hourly averages. Compliance with the emission limit for SO<sub>2</sub> and the 24-hour CO limits shall be based on a rolling 24-hour average that shall be recomputed every hour from the individual hourly averages for the current hour and the preceding 23 hours. Hourly averages shall be computed according to 40 CFR 60.13. Compliance with the 30-day emission limit for VOC shall be based on a 30-day block average that shall be computed from a minimum of one measurement every minute. The CEM system shall express the results in units of pounds per ton of clinker produced, and pounds per hour. [Rule 62-4.070(3), F.A.C., BACT; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.16.]

**D.16. Continuous Opacity Monitor (COM) and Continuous Emissions Monitors (CEM) Systems.** Continuous opacity monitor (COM) systems shall be operated and maintained at the kiln/raw mill baghouse stack pursuant to 40 CFR 63.1350. A continuous emission monitor for emissions of total hydrocarbon is required pursuant to 40 CFR 63.1349 and 63.1350. A continuous monitor for the temperature at the inlet to the in-line kiln/raw mill baghouse is required pursuant to 40 CFR 63.1349 and 63.1350. [0530021-018-AC/PSD-FL-351C, Specific Condition A.17.]

**D.17. CEM System Requirements.** The calibration, maintenance, operation, record keeping, and reporting of the CEM system shall comply with the requirements of 40 CFR 60.7 and 60.13; 40 CFR 60 Appendix B, Performance Specifications; and, Appendix F, Quality Assurance Procedures. [Rules 62-4.070(3), 62-210.800 and 62-297.520, F.A.C., BACT; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.18.]

**Test Methods and Procedures**

**D.18. Test Methods.** In addition to the continuous monitoring requirements of this permit, the owner or operator shall demonstrate compliance with the emission limits of this permit for emissions unit 044 annually (except for mercury emissions, which shall be tested every five years) using the test methods of 40 CFR 60 Appendix A specified below. The tests conducted annually for the relative accuracy test audit (RATA) for the CEM system may be used to satisfy this requirement provided the owner or operator satisfies the prior notification requirements and emission testing requirements of this permit for performance and compliance tests. Required tests shall be performed in accordance with the following reference methods:

<b>Method</b>	<b>Description of Method and Comments</b>
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5*	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM <sub>10</sub> ). The minimum sample volume shall be 30 dry standard cubic feet.

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<b>Method</b>	<b>Description of Method and Comments</b>
6 or 6C	Determination of Sulfur Dioxide Emissions from Stationary Sources
7 or 7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10 or 10A	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}
25 or 25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)
29**	Determination of Metals (Mercury) Emissions from Stationary Sources

\*The minimum sample volume shall be 30 dry standard cubic feet.

\*\*or the Ontario Hydro Method for Subpart LLL Hg Tests

Each test shall be conducted while all continuous monitoring systems are functioning properly, and with all process units operating at their permitted capacity.

The above methods are described in 40 CFR 60, Appendix A, and 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 62-4.070(3), 62-296.701(4)(a), (c) and (d)62-297.310(7), 62-297.401, F.A.C.; BACT; 0530021-018-AC/PSD-FL-351C, Specific Condition A.19.]

**D.19. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

**D.20. Annual Compliance Tests Required.** During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), each EU shall be tested to demonstrate compliance with the emissions standards for visible emissions and particulate matter. [Rule 62-297.310(7), F.A.C.]

**D.21. Emissions Tests and Fuel Scenarios.** Emission tests of emissions unit 044 were conducted for the pollutants in Specific Condition **D.9.** upon initial operation under the fuel scenario representing the highest potential for generating emissions:

<b>PRIMARY FUEL</b>	<b>SECONDARY FUELS</b>
Coal	Whole tires directly into the pyroprocessing system, petroleum coke, and flyash

Subsequent annual testing under this fuel firing scenario is not required for any firing scenario that is used for less than 400 hours in the previous year, as documented by fuel firing records. If all of the secondary fuels listed above are not available at the time of testing, the tests shall be based on the fuels that are available. If another secondary fuel becomes available in the future, additional tests shall be conducted with that fuel, if such tests are deemed necessary by the Department, before that fuel is used. [0530021-018-AC and PSD-FL-351C, Specific Condition A.20.]

**D.22. Long-Term Mercury Emissions Determination.** Materials Balance testing in Specific Condition **D.23.** shall be used to determine mercury emissions. [Rules 62-4.070(3), 62-296.701(4)(a), (c) and (d), and 62-297.310(7), F.A.C.; BACT; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.21.]

**D.23. Material Balance Analysis of Mercury.** The owner or operator shall demonstrate compliance with the mercury throughput limitation by material balance and making and maintaining records of monthly and rolling 12-month mercury throughput. The owner or operator shall, for each month of sampling required by this condition, perform daily sampling of the raw mill feed, power plant ash, coal, petroleum coke, and tires,

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and shall composite the daily samples each month, and shall analyze the monthly composite sample to determine mercury content of these materials for the month. The owner or operator shall determine the mass of mercury introduced into the pyroprocessing system (in units of pounds per month) from the total of the product of the mercury content from the monthly composite analysis and the mass of each material or fuel used during the month. The consecutive 12-month record shall be determined from the individual monthly records for the current month and the preceding eleven months and shall be expressed in units of pounds of mercury per consecutive 12-month period. Such records shall be completed no later than 25 days following the month of the records. The permittee shall have the option of collecting, compositing, analyzing and calculating the Hg leaving the process via the dust permanently withdrawn from the pyroprocessing system. If the Hg concentration is below the detectable limit or limits of quantification, a value of zero will be assumed for the concentration in the dust. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.22.]

#### **Recordkeeping and Reporting Requirements**

- D.24. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.
- D.25. Records of Process and Production Rates.** The owner or operator shall make and maintain records of the process rate of dry preheater feed in units of tons per hour and tons per consecutive 12-month period, and the production rate of clinker and cement in units of tons per hour and tons per consecutive 12-month period. The owner or operator shall make and maintain records of the production of Portland cement in units of tons per consecutive 12-month period. Records in units of tons per hour shall be based on either hourly averages or daily averages and shall be completed no later than the day following the day of the record. Records in units of tons per consecutive 12-month period shall be made from monthly records of process and production rates for the past 12 months, and shall be completed no later than the 10th day of each following month. [Rule 62-4.070(3), F.A.C.; BACT; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.23.]
- D.26. Records of Fuels and Heat Input.** The owner or operator shall record the fuel firing rate continuously. The owner or operator shall maintain records of the quantity and representative analysis of fuels purchased, and such records shall include the sulfur content, and heat content of the fuel for coal, petroleum coke, natural gas, fuel oil, propane, flyash, and whole tires. The records also shall include proximate and ultimate analyses. The owner or operator shall make and maintain records of heat input to the pyroprocessing system on a block-hour basis, starting at the beginning of each hour, by multiplying the hourly average fuel firing rate by the heating value representative of that fuel from the records of fuel analysis. Such records shall be completed for each block-hour, within 15 minutes of the end of each block-hour. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.24.]
- D.27. Records of Startup, Shutdown and Malfunction.** The owner or operator shall make and maintain records of periods of startup, shutdown and malfunction. These records shall show the dates, times and duration of these episodes and shall document suspected cause of each episode, corrective actions taken by the owner or operator and actions taken to reduce excess emissions. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.25.]
- D.28. Material Balance Records of Mercury.** The owner or operator shall demonstrate compliance with the mercury throughput limitation by material balance as required by Specific Condition **D.23.** and making and maintaining records of monthly and rolling 12-month mercury throughput. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.26.]



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**Other Requirements**

**D.29. Appendices.** This emissions unit is subject to all applicable requirements of Appendices NESHAP, Subpart A and Subpart LLL, listed in the Table of Contents of this permit. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.27.]

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**Subsection E. Brooksville Portland Cement Line 2 – Materials Handling Activities**

EMISSIONS UNIT NO.	BAGHOUSE ID NO.	EMISSIONS UNIT DESCRIPTION
<b>Process: Raw Mix and Raw Meal Handling and Storage System</b>		
045	331.BF640	Filter Dust Bin
	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
<b>Process: Clinker Handling and Storage</b>		
048	471.BF110	Clinker Transport
050	471.BF120	Clinker Storage Silo
	481.BF155	Clinker Silo Discharge 1
	481.BF165	Clinker Silo Discharge 2
<b>Process: Finish Mill System</b>		
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
	531.BF290	Finish Mill Rejects Transport
<b>Process: Cement Silos &amp; Loadout</b>		
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
062	641.BF150	Packing Plant

Emissions of NO<sub>x</sub>, SO<sub>2</sub>, CO and VOC are controlled by emissions units 044 and 052. Emissions from handling, conveyance, and transfer points are controlled by baghouses. Emissions from raw materials piles, loading operations, transportation, etc., are controlled by reasonable precautions including paving, road sweeping, watering, planting grass, etc.

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**Subsection E. Brooksville Portland Cement Line 2 – Materials Handling Activities**

*{Permitting Note: These emissions units are subject to 40 CFR 63 Subpart LLL, National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry (40 CFR 63.1340 – 63.1359), adopted by reference into Rule 62.204.800, F.A.C. and 40 CFR 63 Subpart A – General Provisions. If an affected facility subject to 40 CFR 63, Subpart LLL has a different emission limit or requirement for the same pollutant under another regulation in title 40 of this chapter, the owner or operator of the affected facility must comply with the most stringent emission limit or requirement and is exempt from the less stringent requirement. In particular, refer to 40 CFR 60, Subpart F, Standards of Performance for Portland Cement Plants. These emissions units are also subject to the requirements of the state rules, particularly Rule 62-212.400, F.A.C., Prevention of Significant Deterioration.}*

**Essential Potential to Emit (PTE) Parameters**

- E.1. Permitted Capacity.** The raw material and handling storage shall not process more than 246 tons per hour of raw material (2,154,960 tons per year) in any consecutive 12-month period. [0530021-018-AC/PSD-FL-351C, Facility Description, 0530021-033-AC/PSD-FL-351D]
- E.2. Hours of Operation.** These emissions units are allowed to operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200(PTE); and, 0530021-018-AC/PSD-FL-351C, Specific Condition A.1.]

**Air Heater Performance**

- E.3. Air Heater Associated With the Finish Mill (EU052).** The following are the performance restrictions for the air heater:
  - a. *Heat Input.* The maximum heat input of the air heater shall be limited to 45 MMBtu/hr.
  - b. *Hours.* The operation of the air heater shall be limited to 2,500 hours per year.
  - c. *Fuel.* The air heater may be fired only with propane and maximum 0.05% sulfur distillate oil. [Rule 62-212.400, F.A.C. (BACT); and, 0530021-018-AC/PSD-FL-351C, Specific Condition B.5.]

**Emission Limitations and Standards**

Unless otherwise specified, the averaging times for Specific Conditions E.4. - E.5. are based on the specified averaging time of the applicable test method.

- E.4. Emissions Limits.** Emissions from the following emissions units shall not exceed the following PM/PM<sub>10</sub> limits for the following pollutants:

EMISSIONS UNIT	BAGHOUSE ID NO.	EMISSION LIMIT PM/PM <sub>10</sub> (LB/HR)	AVERAGING TIME <sup>1</sup>	OPACITY (%) <sup>2</sup>
<b>Process: Raw Mix and Raw Meal Handling and Storage System</b>				
045	331.BF640	0.60/0.42	3 hours	5
	311.LS609			
046	341.BF400	0.55/0.39	3 hours	5
047	341.BF410	2.64/1.84	3 hours	5
	351.BF410			
	351.BF420			
<b>Process: Clinker Handling and Storage</b>				
048	471.BF110	0.22/0.15	3 hours	5
050	481.BF155	0.99/0.70	3 hours	5
	481.BF165			
	471.BF120			
<b>Process: Finish Mill System</b>				
051	511.BF650	0.57/0.40	3 hours	5

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**Subsection E. Brooksville Portland Cement Line 2 – Materials Handling Activities**

EMISSIONS UNIT	BAGHOUSE ID NO.	EMISSION LIMIT PM/PM <sub>10</sub> (LB/HR)	AVERAGING TIME <sup>1</sup>	OPACITY (%) <sup>2</sup>
052	531.BF500	8.57/6.0	3 hours	5
054	531.BF020	0.60/0.42	3 hours	5
057	531.BF400	0.44/0.31	3 hours	5
	531.BF290			
<b>Process: Cement Silos &amp; Loadout</b>				
058	612.BF005	0.95/0.65	3 hours	5
	612.BF620			
	622.LS140			
	622.LS160			
059	611.BF005	0.78/0.54	3 hours	5
	611.BF045			
	611.BF610			
	611.LS760			
062	641.BF150	1.17/0.82	3 hours	5

<sup>1</sup> The averaging times for PM and PM<sub>10</sub> correspond to the required length of sampling for the emission tests.

<sup>2</sup> The averaging time for visible emissions shall be a 6-minute block average computed from a minimum of one measurement every 15 seconds. The 6 minute block averages shall start at the beginning of each hour.

[Rules 62-4.070(3), 62-210.700(5) and 62-212.400, F.A.C.; BACT; and, 0530021-018-AC/PSD-FL-351C, Specific Condition B.1.]

**E.5. Emission Limits for Finish Mill and Air Heater – Emissions Unit 052.** This emissions unit shall comply with the following emission limits:

Pollutant	SO <sub>2</sub>	NO <sub>x</sub>	CO	PM/PM <sub>10</sub>	Opacity
Mode	lb/hr	lb/hr	lb/hr	lb/ton feed	(%)
Air Heater On	2.1	5.40	1.5	<sub>FM</sub> 0.029/0.020	5%
Air Heater Off	Not applicable	Not Applicable	Not Applicable	0.029/0.020	5%

[0530021-018-AC/PSD-FL-351C, Specific Condition B.6.a., 0530021-033-AC, Specific Condition B.6.]

**Control Technology**

**E.6. Particulate Matter Emissions Control and Limits.** Particulate matter (PM) emissions from these emissions units shall not exceed 0.01 grains/dscf, and PM<sub>10</sub> emissions shall not exceed 0.007 grains/dscf. Particulate matter emissions from each emission point of this emissions unit shall be controlled by a baghouse. Visible emissions from each emission point of this emissions unit shall not exceed 5% opacity (no visible emissions). [Rules 62-4.070(3), 62-210.700(5), 62-212.400 and 62-297.620(4), F.A.C.; 40 CFR 63.1348; BACT; and, 0530021-018-AC/PSD-FL-351C, Specific Condition B.2]

**Monitoring of Operations**

**E.7. CAM Plan.** Emissions unit Nos. 046, 047, 048, 050, 054, 057, 058 and 059 are subject to the Compliance Assurance Monitoring (CAM) requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), F.A.C. [40 CFR 64; Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection E. Brooksville Portland Cement Line 2 – Materials Handling Activities**

**Test Methods and Procedures**

**E.8. Test Methods.** Required tests shall be performed in accordance with the following reference methods:

<b>Method</b>	<b>Description of Method and Comments</b>
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Method for Determining Particulate Matter Emissions
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}
ASTM Methods	Compliance with the distillate fuel oil sulfur limit shall be demonstrated by taking a sample, analyzing the sample for fuel sulfur and including the value with the initial and annual test reports. Sampling the fuel oil sulfur content shall be conducted in accordance with ASTM D4057-88, Standard Practice for Manual Sampling of Petroleum and Petroleum Products, and one of the following test methods for sulfur in petroleum products: ASTM methods D5453-00, D129-91, D1552-90, D2622-94, or D4294-90. More recent versions of these methods may be used. For each subsequent fuel delivery, the permittee shall maintain a permanent file of the certified fuel sulfur analysis from the fuel vendor.

The above methods are described in 40 CFR 60, Appendix A, and 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. [Rule 62-297.401, F.A.C., 0530021-018-AC/PSD-FL-351C, Specific Condition B.6.c.]

**E.9. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

**E.10. Annual Compliance Tests Required.** During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), each EU shall be tested to demonstrate compliance with the emissions standards for visible emissions. Emissions unit 052 shall also be tested for CO, PM/PM<sub>10</sub> and NO<sub>x</sub>. [Rule 62-297.310(7), F.A.C. and Permit No. 0530021-018-AC/PSD-FL-351C, Specific Condition B.3.]

**E.11. Waiver of PM Testing.** With the exception of Emissions Unit 052, annual compliance testing for PM and PM<sub>10</sub> emissions from these emissions units is waived, and an alternative standard of 5% opacity (no visible emissions) is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the Department has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5, as described in 40 CFR 60 Appendix A. [0530021-018-AC/PSD-FL-351C, Specific Condition B.2.]

**E.12. Testing Requirements for Finish Mill (E.U. 052).** The finish mill shall be stack tested with the air heater on to demonstrate annual compliance with the emission standards for CO, PM/PM<sub>10</sub>, NO<sub>x</sub> and visible emissions as indicated in the table above. Compliance with the SO<sub>2</sub> limit shall be demonstrated by compliance with the maximum 0.05% sulfur fuel limitation. [Rule 62-297.310(7)(a)4.a., F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Conditions B.3. and B.6.b.]

*{Permitting Note: On August 30, 2010, CEMEX requested to install equipment for the effective routing of filter dust from Kiln 2 baghouse/dust bin to Finish Mill 2 (E.U. 052). The existing dust collector (E.U. 047- Kiln Feed Bin) is used to vent the new dust silo. The potential to emit, as calculated by CEMEX, is expected to be less than*

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection E. Brooksville Portland Cement Line 2 – Materials Handling Activities**

*0.1 tons per year. They stated that the permitted rate of the finish mill will not be increased and there will be no net increase in the potential to emit from the finish mill baghouse. They added that the scope of material handling, within the system, will not increase and that since the filter dust is consumed at the finish mill, it will ultimately replace a like volume of other input(s). On the basis of the request and follow up information presented and under the authority of Rule 62-210.300(a), F.A.C. Categorical and Conditional Exemptions, the Department concluded that Kiln 2 filter dust storage/conveyance/intergrinding project did not require a construction permit.}*

**Recordkeeping and Reporting Requirements**

**E.13. Reporting Schedule.** The following reports and notifications shall be submitted to the Compliance Authority:

<b>Report</b>	<b>Reporting Deadline</b>	<b>Related Condition(s)</b>
Notice of oil and propane use.	As requested.	<b>E.15.</b>

[Rule 62-213.440, F.A.C.]

**E.14. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

**E.15. Notification, Recordkeeping and Reporting Requirements for E.U 052.** The permittee shall maintain records of the amount of oil and propane used in the finish mill air heater. [Application and Rules 62-212.400, (BACT), 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.; Rule 62-297.310(7)(a)4.a., F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition B.6.d.]

**Other Requirements**

**E.16. Appendices.** These emissions units are subject to all applicable requirements of Appendices NESHAP, Subpart A and Subpart LLL listed in the Table of Contents of this permit. [Rules 62-4.070(3) and 62-297.310(7)(a)4.a., F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition B.4.]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection F. Brooksville Portland Cement Line 2 – Coal Mill Handling and Grinding System**

<b>Brooksville Portland Cement Line 2</b>	
<b>Process: Coal Mill Handling and Grinding System</b>	
<b>EMISSIONS UNIT NO.</b>	<b>EMISSIONS UNIT DESCRIPTION</b>
060	Coal Mill
061	Fine Coal Bin

Coal and petroleum coke are received by railcar. The milled fuels are stored in a pulverized fuel storage bin for pneumatic conveyance to the main burner and precalciner burner.

All enclosed sources associated with the coal and petroleum coke handling and milling operation are controlled with baghouses. Fugitive emissions from coal and petroleum coke handling and conveying are minimized by inherent moisture and by the application of water as necessary for suppression of unconfined emissions of particulate matter.

*{Permitting Note: Emissions units 060 and 061 are subject to 40 CFR 60 Subpart Y, Standards of Performance for Coal Preparation Plants (40 CFR 60.250 – 60.254) and 40 CFR 60 Subpart A. These emissions units are also subject to the requirements of the state rules, particularly the requirements of Rule 62-212.400, F.A.C., Prevention of Significant Deterioration.}*

**Essential Potential to Emit (PTE) Parameters**

- F.1. Hours of Operation.** These emissions units may operate continuously, i.e., 8,760 hours per year. [Rule 62-210.200, F.A.C., Definitions -- Potential to Emit (PTE); and, 0530021-018-AC/PSD-FL-351C, Specific Condition C.1.]
- F.2. Process Rate Limitation.** The coal mill shall not crush more than 20.0 tons per hour of coal and/or petroleum coke, 30-day average. The coal mill shall not crush more than 175,200 tons annually. [Rule 62-210.200, F.A.C., Definitions -- Potential to Emit (PTE); and, 0530021-018-AC/PSD-FL-351C, Specific Condition C.2., 0530021-033-AC, Specific Condition C.2.]
- F.3. O&M Plan for Baghouses.** The owner or operator shall have on file an operation and maintenance plan (O&M Plan) for emissions unit 060. The O&M plan shall address the schedule for inspection of this equipment and required preventive maintenance and shall require records of the condition of the equipment upon each inspection and any maintenance activities performed. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition C.3.]

**Emission Limitations and Standards**

Unless otherwise specified, the averaging times for Specific Conditions **F.4.** - **F.5.** are based on the specified averaging time of the applicable test method.

- F.4. Emissions Limits.** The emissions units, and corresponding points, shall have the following emission limits:

<b>EMISSIONS UNIT NO.</b>	<b>EMISSION POINT</b>	<b>DESCRIPTION</b>	<b>OPACITY LIMIT</b>
060	461.BF400	Coal Mill	10%
061	461.BF560	Fine Coal Bin	5%

Particulate matter (PM) emissions from emissions unit 060 shall not exceed 0.01 grains/dscf (1.96 lb/hr), and PM<sub>10</sub> emissions shall not exceed 0.007 grains/dscf (1.37 lb/hr).

Particulate matter (PM) emissions from emissions unit 061 shall not exceed 0.01 grains/dscf (0.03 lb/hr), and PM<sub>10</sub> emissions shall not exceed 0.007 grains/dscf (0.02 lb/hr).

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection F. Brooksville Portland Cement Line 2 – Coal Mill Handling and Grinding System**

Particulate matter emissions from each emission point of this emissions unit shall be controlled by a baghouse. Visible emissions from each emission point of this emissions unit shall not exceed 5% opacity.

Annual compliance testing for PM emissions from each emissions unit is waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the Department has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5, as described in 40 CFR 60 Appendix A.

[Rules 62-4.070(3), 62-210.700(5), 62-212.400, and 62-297.620(4), F.A.C.; BACT; and, 0530021-018-AC/PSD-FL-351C, Specific Condition C.4.]

**F.5. Particulate Matter.** Pursuant to 40 CFR 60.252, standards for particulate matter are:

- a. On and after the date on which the performance test required to be conducted by §60.8 is completed, an owner or operator subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any thermal dryer gases which:
  - (1) Contain particulate matter in excess of 0.070 g/dscm (0.031 gr/dscf).
  - (2) Exhibit 20 percent opacity or greater.
- b. On and after the date on which the performance test required to be conducted by § 60.8 is completed, an owner or operator subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal, gases which exhibit 20 percent opacity or greater.

[40 CFR 60.252(a) and (c); and, 0530021-018-AC/PSD-FL-351C, Specific Condition C.8.]

**Monitoring of Operations**

**F.6. Monitoring Devices.** Pursuant to 40 CFR 60.253 Monitoring of operations:

- a. The owner or operator of any thermal dryer shall calibrate, maintain, and continuously operate monitoring devices as follows:
- b. A monitoring device for the measurement of the temperature of the gas stream at the exit of the thermal dryer on a continuous basis. The monitoring device is to be certified by the manufacturer to be accurate within ±3° Fahrenheit.
- c. All monitoring devices under paragraph (a) of this section are to be recalibrated annually in accordance with procedures under 40 CFR 60.13(b).

[40 CFR 60.253(a) and (b); and, 0530021-018-AC/PSD-FL-351C, Specific Condition C.9.]

**Test Methods and Procedures**

**F.7. 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

The above methods are described in 40 CFR 60, Appendix A, and 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. [Rule 62-297.401, F.A.C., 0530021-018-AC/PSD-FL-351C, Specific Condition C.5. 40 CFR 60.254(a); and, 0530021-018-AC/PSD-FL-351C, Specific Condition C.10.]

**F.8. Emission Tests Required.** The owner or operator shall demonstrate compliance with the visible emissions standard for emissions units 060 and 061 annually using EPA Method 9, as described in 40 CFR 60 Appendix A. The owner or operator shall demonstrate compliance with the particulate matter (PM) limits of this permit



### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection F. Brooksville Portland Cement Line 2 – Coal Mill Handling and Grinding System

for emissions unit 060 using EPA Method 5, as described in 40 CFR 60 Appendix A. Should subsequent particulate matter (PM) testing be required for both emissions units, compliance shall be demonstrated using EPA Method 5. [Rules 62-4.070(3), 62-297.310 and 62-297.620(4), F.A.C.; BACT; and, 0530021-018-AC/PSD-FL-351C, Specific Condition C.5.]

#### **Recordkeeping and Reporting Requirements**

**F.9.** Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

**F.10.** Records of Process Rates. The owner or operator shall make and maintain records showing the monthly processing rate of coal and petroleum coke crushed in the coal mill. Records of the processing rate for each month shall be completed no later than 10 days following the end of the month. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition C.6.]

#### **Other Requirements**

**F.11.** Appendices. These emissions units are subject to all applicable requirements of Appendices NSPS Subpart A and Subpart Y listed in the Table of Contents of this permit. [Rule 62-4.070(3), F.A.C.; and, 0530021-018-AC/PSD-FL-351C, Specific Condition III.C.11.]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection G. Central Power & Lime Plant -- Emissions Unit 018**

<b>Central Power and Lime Plant</b>	
<b>E.U. ID/Facility ID No.</b>	<b>Brief Description</b>
018	Power Plant Boiler with Dry Limestone Injection Scrubbing followed with a Baghouse System

This emissions unit is a net delivered 150 MW fossil fuel fired boiler with a 320 foot stack. The primary fuel burned is coal, with new distillate No. 2 fuel oil used for startup. Control activity includes dry limestone injection scrubbing followed with a fabric filter baghouse system. The exit diameter is 16 feet and the exit temperature is 300° F. The volumetric flow rate is 840,000 acfm (585,790 dscfm).

*{Permitting Note: This emissions unit is regulated under Rule 62-296.405, F.A.C., Fossil Fuel Steam Generators with more than 250 million Btu per Hour Heat Input; Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD-FL-090 and PSD-FL-090D); Rule 62-212.400(4), F.A.C., Best Available Control Technology (BACT); and, Power Plant Siting: PA 82-17 and PA 82-17(A thru K).}*

**Essential Potential to Emit (PTE) Parameters**

- G.1. Permitted Capacity.** The heat input rate of the power plant boiler, with or without the cement kiln 1 operating, shall not exceed the maximum necessary to produce 150 MW (net delivered) of power and shall in no case exceed 1,850 MMBtu/hr, maximum three-hour average. [PA 82-17E; and, PSD-FL-090D, Specific Condition G.1.]
- G.2. Hours of Operation.** This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200(PTE); and, PA 82-17]
- G.3. Methods of Operation - Fuels.**
  - a. *Coal.* The primary fuel allowed to be burned is coal.
  - b. *Fuel Oil.* New distillate No. 2 fuel oil is allowed for startup purposes. Any fuel oil to be fired in the unit shall be “new oil”, which means an oil which has been refined from crude oil and not been used. [Rule 62-213.410, F.A.C.; PSD-FL-090 and PSD-FL-090D, Specific Condition G.6; and, PA 82-17 and PA 82-17E]

**Emission Limitations and Standards**

Unless otherwise specified, the averaging times for Specific Conditions **G.5. – G.13.** are based on the specified averaging time of the applicable test method.

- G.4. Fuel Oil.** Any fuel oil to be fired in the unit shall be “new oil”, which means an oil which has been refined from crude oil and not been used. The quantity of fuel oil used by the boiler shall not cause the allowable emissions limits listed in the table below to be exceeded. Such emissions may be calculated in accordance with the latest edition of AP-42.

<b>Allowable Emissions Limits</b>	
<b>Pollutant</b>	<b>lb/MMBtu</b>
Particulate Matter	0.015
Sulfur Dioxide	0.31
Nitrogen Oxides	0.16
Visible Emissions	Maximum 20% Opacity

[PA 82-17]

*{Permitting Note: This table applies when only fuel oil is being fired.}*

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection G. Central Power & Lime Plant -- Emissions Unit 018

##### G.5. Visible Emissions.

- a. Power Plant Boiler: Visible Emissions. When burning coal only, visible emissions shall not exceed 20% opacity, 6-minute average, except for one 6-minute period per hour for not more than 27% opacity.
- b. Combined Cement Plant 1 and Power Plant Boiler: Visible Emissions. Visible emissions from the combined cement plant 1 and power plant boiler shall not exceed 10% opacity, 6-minute average, except for one 6-minute period per hour of not more than 17% opacity.  
[PA 82-17; PSD-FL-090, PSD-FL-090D, Specific Condition A.1.d.; and, BACT]

##### G.6. Particulate Matter (PM/PM<sub>10</sub>).

- a. Power Plant Boiler: PM/PM<sub>10</sub>. PM/PM<sub>10</sub> emissions from the power plant boiler when burning coal shall not exceed 0.0135 pound per MMBtu heat input (25.0 pounds per hour at 1,850 MMBtu/hr heat input), averaging time per 40 CFR 60.46.
- b. Combined Cement Plant 1 and Power Plant Boiler: PM/PM<sub>10</sub>. PM/PM<sub>10</sub> emissions from the combined cement plant 1 and power plant boiler shall not exceed 0.0135 pound per MMBtu heat input (25.0 pounds per hour at 1,850 MMBtu/hr heat input) plus 0.3 pound from cement kiln 1 and 0.1 pound from clinker cooler 1 per ton of kiln 1's feed (dry basis), averaging time per 40 CFR 60.46.  
[PA 82-17 and PA 82-17E; PSD-FL-090 and PSD-FL-090D, Specific Conditions A.1.c. and A.2.c.; and, BACT]

##### G.7. Sulfur Dioxide (SO<sub>2</sub>).

- a. Power Plant Boiler: SO<sub>2</sub>. SO<sub>2</sub> emissions from the power plant boiler while burning coal shall not exceed 1.2 pounds per MMBtu heat input, maximum two hour average, and 770 pounds per hour, maximum three hour average.
- b. Combined Cement Plant 1 and Power Plant Boiler: SO<sub>2</sub>. SO<sub>2</sub> emissions from the combined cement plant 1 and power plant boiler shall not exceed 1.2 pounds per MMBtu heat input, maximum two hour average, and 781 pounds per hour, maximum three hour average.  
[PA 82-17 and PA 82-17E; PSD-FL-090, Specific Condition A.1.a. and A.2.a., and PSD-FL-090D; and, BACT]

##### G.8. Nitrogen Oxides (NO<sub>x</sub>).

- a. Power Plant Boiler: NO<sub>x</sub>. NO<sub>x</sub> emissions from the power plant boiler while burning coal shall not exceed 0.7 pound per MMBtu heat input, averaging time per Chapter 62-297, F.A.C., not to exceed 846 pounds per hour.
- b. Combined Cement Plant 1 and Power Plant Boiler: NO<sub>x</sub>. NO<sub>x</sub> emissions from the combined cement plant 1 and power plant boiler shall not exceed 0.7 pound per MMBtu heat input plus 2.9 pounds per ton of kiln 1's feed (dry basis), averaging time per Chapter 62-297, F.A.C., not to exceed 1,205 pounds per hour.  
[PA 82-17 and PA 82-17E; PSD-FL-090, Specific Condition A.1.b. and A.2.b., and PSD-FL-090D; and, BACT]

##### G.9. Combined Cement Plant 1 and Power Plant Boiler: Total Fluorides. Total fluoride emissions from the combined cement plant 1 and power plant boiler shall not exceed 0.7 pound per hour. [PSD-FL-090 Specific Condition A.2.e.]

##### G.10. Combined Cement Plant 1 and Power Plant Boiler: Sulfuric Acid Mist. Sulfuric acid mist emissions from the combined cement plant 1 and power plant boiler shall not exceed 1.7 pounds per hour. [PSD-FL-090, Specific Condition A.2.g.]

##### G.11. Combined Cement Plant 1 and Power Plant Boiler: Mercury. Mercury emissions from the combined cement plant 1 and power plant boiler shall not exceed 0.03 pound per hour. [PSD-FL-090 Specific Condition A.2.h.]

## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

### Subsection G. Central Power & Lime Plant -- Emissions Unit 018

#### Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C., cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

- G.12. Excess Emissions Allowed.** Excess emissions resulting from startup, shutdown, or malfunction of any emissions unit shall be permitted provided (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 unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]
- G.13. Excess Emissions Prohibited.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

#### Monitoring of Operations

- G.14. Fuel Sampling and Analysis.** Samples of each shipment received of all fuel oil and coal fired shall be taken and an ultimate analysis obtained including the heating value on a moisture free basis. Accordingly, samples shall be taken of each fuel shipment received. Coal sulfur content shall be determined and recorded on a daily basis. [PA 82-17 and PA 82-17E, Specific Condition 11; and, PSD-FL-090, Specific Condition C.4]
- G.15. Daily Log of Fuel Use.** The permittee shall maintain a daily log of the amounts and types of fuel used and copies of the ultimate fuel analyses containing the heating value on a moisture free basis. [PA 82-17 and PA 82-17E, Specific Condition 11]
- G.16. Instrumentation.** Instruments shall be calibrated and maintained to continuously measure the amounts of coal and limestone used in the power boiler. [PA 82-17 and PA 82-17E; and, PSD-FL-090, Specific Condition C.6]
- G.17. Emission Control Equipment Procedure.** The permittee shall have available a written plan or procedure that will allow the permittee to monitor emission control equipment efficiency and enable the permittee to return malfunctioning equipment to proper operation as expeditiously as possible. [PA 82-17 and PA 82-17E; and, PSD-FL-090, Specific Condition C.5]

#### Continuous Monitoring Requirements

- G.18. Oxygen Monitor.** A flue gas oxygen meter shall be operated and maintained to continuously monitor a representative sample of the flue gas. The oxygen monitor shall be used with automatic feedback or manual controls to continuously maintain air/fuel ratio parameters at an optimum. [PA 82-17 and PA 82-17E; and, PSD-FL-090, Specific Condition C.1.]
- G.19. Sulfur Dioxide and Opacity Monitors.** The permittee shall operate and maintain continuous monitoring devices for the power boiler/cement plant 1 main stack exhaust for sulfur dioxide and opacity to demonstrate compliance with the pound per hour SO<sub>2</sub> emissions limits and the visible emissions limits, respectively, in Specific Conditions G.7. and G.5., respectively. The owner or operator shall continuously monitor SO<sub>2</sub> concentrations in the stack gases in the CP (cement and power) main plant stack, and convert the same to a mass emissions rate (lbs/hr) using a FDEP approved conversion factor or a flow monitor. The monitoring devices shall meet the applicable requirements of Chapter 62-297, F.A.C., and 40 CFR 60.45 and 40 CFR 60.13, including certification of each device. The permittee shall provide the Department with 30 days notice on each recertification. [PA 82-17 and PA 82-17K, Specific Condition B.1; Rule 62-297.520, F.A.C.; and, PSD-FL-090]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection G. Central Power & Lime Plant -- Emissions Unit 018**

**Test Methods and Procedures**

**G.20. Test Methods.** Required tests shall be performed in accordance with the following reference methods:

<b>Method</b>	<b>Description of Method and Comments</b>
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5 or 17	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM <sub>10</sub> .)
6 or 6C	Determination of Sulfur Dioxide Emissions from Stationary Sources
7 or 7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
8	Determination of Sulfuric Acid Mist Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}
13A or 13B	Determination of Total Fluoride Emissions from Stationary Sources
18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates (Optional F-factor method may be used to determine flow rate and gas analysis to calculate mass emissions in lieu of Methods 1-4.)
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)
101A	Determination of Particulate and Gaseous Mercury Emissions

The above methods are described in 40 CFR 60, Appendix A, and 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. [PA 82-17 and PA-17E, Specific Condition C.1, PSD-FL-090 and PSD-FL-091, Rules 62-204.800, 62-297.401, F.A.C., 40 CFR 60, Appendix, A0530021-006-AC]

**G.21. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

**G.22. Annual Compliance Tests Required.** During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), each EU shall be tested to demonstrate compliance with the emissions standards for PM, NO<sub>x</sub>, SO<sub>2</sub>, and visible emissions. [Rule 62-297.310(7), F.A.C. and Permit No. PSD-FL-090 and PSD-FL-091, Specific Condition B.4; PA 82-17 and PA 82-17E, Specific Condition C.1]

**G.23. Compliance Tests Prior To Renewal.** In addition to the annual compliance tests specified above, compliance tests shall also be performed for total fluorides, sulfuric acid mist and mercury prior to obtaining a renewed operating permit to demonstrate compliance with the emission limits in Specific Conditions **G.9. – G.11.** [Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.]

**G.24. PM, NO<sub>x</sub>, SO<sub>2</sub>, and Visible Emissions.** The permittee shall annually conduct:

- a. Performance tests on the main stack for PM, NO<sub>x</sub>, SO<sub>2</sub>, and visible emissions:
    - (1) during normal operations when the power plant and cement plant 1 are operating in combination; and,
    - (2) at or near 1,850 MMBtu/hr heat input when the power plant is operating alone.
- [PSD-FL-090 and PSD-FL-091; PA 82-17 and PA 82-17E; and, Rule 62-297.310(7), F.A.C.]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection G. Central Power & Lime Plant -- Emissions Unit 018**

- G.25. Stack Gas Velocity.** EPA Methods 1 and 2 shall be used for determining stack gas velocity when required in Specific Condition **G.20**. [PSD-FL-090, Specific Condition B.13; and, 40 CFR 60, Appendix A]
- G.26. Performance Tests and Data Reduction.** Performance tests shall be conducted and data reduced in accordance with methods and procedures outlined in 40 CFR 60.46 and Chapter 62-297, F.A.C. [PA 82-17 and PA 82-17E; and, PSD-FL-090]
- G.27. Performance Tests.** Performance tests shall be conducted under such conditions as the Department shall specify based on representative performance of the facility. The permittee shall make available to the Department such records as may be necessary to determine the conditions of the performance tests. [PA 82-17 and PA 82-17E; and, PSD-FL-090, Specific Condition B.2]
- G.28. Notice.** The permittee shall provide 30 days notice of the performance tests or 10 working days for stack tests in order to afford the Department the opportunity to have an observer present. [PA 82-17; PSD-FL-090, Specific Condition B.3]

**Recordkeeping and Reporting Requirements**

- G.29. Reporting Schedule.** The following reports and notifications shall be submitted to the Compliance Authority:

<b>Report</b>	<b>Reporting Deadline</b>	<b>Related Condition(s)</b>
Notice of Malfunctions.	Per occurrence; report quarterly on demand.	<b>G.31.</b>
Notice of Materials.	Quarterly.	<b>G.32.</b>

[Rule 62-213.440, F.A.C.]

- G.30. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.
- G.31. Malfunctions.** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]
- G.32. Materials Records.** The records of coal and limestone used in the power boiler and fuel analyses shall be reported quarterly to the Department's Southwest District Office. [PA 87-17 and PA 82-17E; and, PSD-FL-090]
- G.33. Data Report.** Stack monitoring, fuel usage, and fuel analyses data shall be reported to the Department's Southwest District Office and to the Hernando County Health Department on a quarterly basis. [PA 82-17 and PA 82-17E, Specific Condition D.1; and, PSD-FL-090]
- G.34. Fuel Records.** Records of all fuel analyses and the daily log of the amounts and types of fuel used shall be kept for public inspection for a minimum of 5 (five) years after the data are recorded. [PA 82-17 and PA 82-17E, Specific Condition D.1; PSD-FL-090; and, Rule 62-213.440, F.A.C.]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection H. Power Plant – Materials Handling,**

**Part of Power Plant – Materials Handling.**

<b>Central Power and Lime Plant</b>		
<b>E.U. ID</b>	<b>Facility ID</b>	<b>Brief Description</b>
035	D-38	Limestone Rock Bin with Baghouse
036	D-31	Contaminated Fly Ash & Filter Dust Bin with Baghouse
037	D-39	Limestone Screening System with Baghouse
038	D-13	Limestone Fines Storage Bin with Baghouse
039	Z-31	Lime Dust Storage Bin with Baghouse

Limestone Rock Bin with Baghouse (035). This emissions unit is a storage bin for limestone rock. The particulate matter (PM) emissions from the materials being stored are controlled by a low temperature baghouse fabric filter system. The stack height is 100 feet, with an exit diameter of 2.5 feet and an exit temperature of 70° F. The nominal volumetric flow rate is 10,500 acfm (10,302 dscfm).

Contaminated Fly Ash & Filter Dust Bin with Baghouse (036). This emissions unit is a storage bin for contaminated fly ash and filtered dust. The PM emissions are controlled by a low temperature baghouse fabric filter system. The stack height is 200 feet, with an exit diameter of 1.5 feet and an exit temperature of 180° F. The nominal volumetric flow rate is 11,000 acfm (9,109 dscfm).

Limestone Screening System with Baghouse (037). This emissions unit is the operation of the limestone screening system to size limestone. The PM emissions are controlled by a low temperature baghouse fabric filter system. The stack height is 30 feet, with an exit diameter of 2.0 feet and an exit temperature of 150° F. The nominal volumetric flow rate is 3,000 acfm (2,607 dscfm).

Limestone Fines Storage Bin with Baghouse (038). This emissions unit is the operation of a storage bin for dried limestone fines for the cement plant. The PM emissions are controlled by a low temperature baghouse fabric filter system. The stack height is 150 feet, with an exit diameter of 3.5 feet and an exit temperature of 100° F. The nominal volumetric flow rate is 19,000 acfm (17,982 dscfm).

Lime Dust Storage Bin with Baghouse (039). This emissions unit is a storage bin for lime dust. The PM emissions are controlled by a low temperature baghouse fabric filter system. The stack height is 100 feet, with an exit diameter of 2.5 feet and an exit temperature of 120° F. The nominal volumetric flow rate is 6,300 acfm (5,757 dscfm).

*{Permitting Note: These emissions units are regulated under Rule 62-297.620(4), F.A.C., Exceptions and Approval of Alternate Procedures and Requirements; Rules 62-212.400 and 62-212.410, F.A.C., Prevention of Significant Deterioration (PSD-FL-090 and PSD-FL-091) and Best Available Control Technology (BACT), respectively.}*

**Essential Potential to Emit (PTE) Parameters**

**H.1. Permitted Capacity.** The maximum process/transfer/throughput rates are:

<b>Central Power and Lime Plant</b>			
<b>E.U. ID No.</b>	<b>Facility ID</b>	<b>Brief Description</b>	<b>Maximum Rate</b>
035	D-38	Limestone Rock Bin with Baghouse	400 tons/hour

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection H. Power Plant – Materials Handling**

<b>E.U. ID No.</b>	<b>Facility ID</b>	<b>Brief Description</b>	<b>Maximum Rate</b>
036	D-31	Contaminated Fly Ash & Filter Dust Bin with Baghouse	100 tons/hour
037	D-39	Limestone Screening System with Baghouse	160 tons/hour
038	D-13	Limestone Fines Storage Bin with Baghouse	100 tons/hour
039	Z-31	Lime Dust Storage Bin with Baghouse	30 tons/hour

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; PSD-FL-090 and PSD-FL-091; AO27-162740, Specific Condition 3, AO27-162743, Specific Condition 3, AO27-186140, Specific Condition 3, AO27-186141, Specific Condition 3, AO27-186143, Specific Condition 3]

**H.2. Hours of Operation.**

- a. The Limestone Rock Bin and Contaminated Fly Ash & Filter Dust Bin operations are allowed to operate continuously, i.e., 8,760 hours/year.
- b. The Limestone Screening System, Limestone Fines Storage Bin and Lime Dust Storage Bin operations are allowed to operate 7,884 hours/year.

[AC27-118676, -118681, -091426, -091427, -091429, & -091430, AO27-162740, Specific Condition 8, AO27-162743, Specific Condition 8, AO27-186140, Specific Condition 2, AO27-186141, Specific Condition 2, AO27-186143, Specific Condition 2]

**H.3. Method of Operation.**

The emissions units either process or transfer materials used in the injection of limestone for SO<sub>2</sub> control for the power boiler. The fly ash handling system (including transfer and silo storage) is be totally enclosed and vented (including pneumatic system exhaust) through fabric filters. [Rule 62-213.410, F.A.C.; PA 82-17 and PA 82-17E; and, PSD-FL-090]

**Emission Limitations and Standards**

Unless otherwise specified, the averaging times for Specific Conditions **H.4. - H.5.** are based on the specified averaging time of the applicable test method.

**H.4. Particulate Matter.** The maximum allowable particulate matter emissions are:

<b>E.U. ID No.</b>	<b>Facility ID</b>	<b>Brief Description</b>	<b>Maximum Allowable Limits</b>
035	D-38	Limestone Rock Bin with Baghouse	0.015 gr/acf; 1.1 lbs/hr; 4.1 TPY
036	D-31	Contaminated Fly Ash & Filter Dust Bin with Baghouse	0.02 gr/acf; 1.41 lbs/hr; 5.4 TPY
037	D-39	Limestone Screening System with Baghouse	0.015 gr/acf; 0.77 lb/hr; 3.04 TPY
038	D-13	Limestone Fines Storage Bin with Baghouse	0.015 gr/acf; 0.77 lb/hr; 3.04 TPY
039	Z-31	Lime Dust Storage Bin with Baghouse	0.015 gr/acf; 1.16-lbs/hr; 4.56 TPY

[PSD-FL-090 & PSD-FL-091 and BACT; PA 82-17; and, AC27-118676, -118681, -091426, -091427, -091429, & -091430; AO27-162740, Specific Condition 4, AO27-162743, Specific Condition 4, AO27-186140, Specific Condition 3, AO27-186141, Specific Condition 3, AO27-186143, Specific Condition 3]

**H.5. Visible Emissions.**

Visible emissions shall not exceed 5 percent opacity, since each emissions unit's potential particulate matter emissions are less than 100 TPY and is equipped with a baghouse control system. As long as the visible emissions do not exceed 5 percent opacity, compliance is assumed for the particulate



**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection H. Power Plant – Materials Handling**

matter limitations established in Specific Condition **H.4**. [Rule 62-297.620(4), F.A.C.; and, AC27-118676, -118681, -091426, -091427, -091429, & -091430]

**H.6. Testing.** If the Department has reason to believe that the particulate matter weight emissions standard in Specific Condition **H.4** is not being met, it shall require that compliance be demonstrated by the test method specified in Specific Condition **H.9**. [Rule 62-297.620(4), F.A.C.; and, AC27-118676, -118681, -091426, -091427, -091429, & -091430]

**Excess Emissions**

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

**H.7. Excess Emissions Allowed.** Excess emissions resulting from startup, shutdown or malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]

**H.8. Excess Emissions Prohibited.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

**Test Methods and Procedures**

**H.9. 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

The above methods are described in 40 CFR 60, Appendix A, and 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, 62-297.401, F.A.C.]

**H.10. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

**H.11. Annual Compliance Tests Required.** During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), each EU shall be tested to demonstrate compliance with the emissions standards for visible emissions. [Rule 62-297.310(7), F.A.C.]

**Recordkeeping and Reporting Requirements**

**H.12. Reporting Schedule.** The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Notice and Reporting of Malfunctions	Notice on occurrence; quarterly report on demand.	<b>H.14.</b>

[Rule 62-213.440, F.A.C.]

**H.13. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

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**Subsection H. Power Plant – Materials Handling**

**H.14. Excess Emissions.** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection I. Cement Plant/Power Plant Coal Receiving, Handling and Transfer Activities**

E.U. ID/Facility ID No.	Brief Description
042	Coal Receiving, Handling and Transfer Activities (fugitives)

Coal Receiving, Handling and Transfer Activities (fugitives). This emissions unit is an activity of receiving, storage, and transferring/conveying 568,300 tons per year of coal to the CEMEX Company's cement plant line 1 and to the CP& L power plant (C/P plants). The coal is received in unit trains (a unit train is a railroad train in which all the cars making it up are shipped from the same origin to the same destination, without being split up or stored en route) and is bottom-dumped from moving rail cars through an open elevated trestle to a coal receiving area. From this area, the coal is moved to a storage area by a bulldozer with the storage pile being shaped and compacted during the transfer. The resulting coal storage area covers approximately 7.8 acres and is approximately 10 feet high. The coal storage area has a capacity of approximately 55,000 tons. The coal is recovered from the coal storage pile by a rubber tired front-end loader and transferred to a receiving hopper. The maximum daily coal transfer rate from the storage pile to the C/P plants' receiving system is 1,740 tons per day. From the receiving hopper, the coal is transferred by covered conveyor belt to a screening system and then to one of five coal bins that supply the C/P plants. Water sprays or chemical wetting agents and stabilizers are used at the coal receiving area, the coal storage area, and the coal transfer system to control fugitive particulate matter emissions and minimize visible emissions. All conveyors and conveyor transport points are enclosed to preclude particulate matter emissions (except those directly associated with the coal stacker/reclaimer or emergency stockout stacker/reclaimer or emergency stockout). The inactive coal storage piles are shaped, compacted and oriented to minimize wind erosion. Water sprays or chemical wetting agents and stabilizers are applied to the storage piles, handling equipment, etc., during dry periods and as necessary to all coal handling facilities to minimize visible emissions.

*{Permitting Note: This emissions unit/activity is regulated under Rule 62-210.300, F.A.C., Permits Required; Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD-FL-090); and, Power Plant Siting: PA 82-17 and PA 82-17E.}*

**Essential Potential to Emit (PTE) Parameters**

- I.1. Hours of Operation.** The emissions unit/activity is allowed to operate continuously, i.e., 8,760 hours/year. [AC27-117650, Specific Condition 1]
- I.2. Method of Operation.** This emissions unit is an activity of receiving, storage, and transferring/conveying coal to the CEMEX and CP&L plants. [Rule 62-213.410, F.A.C.]

**Emission Limitations and Standards**

Unless otherwise specified, the averaging time for Specific Condition **I.3.** is based on the specified averaging time of the applicable test method.

- I.3. Visible Emissions.** Visible emissions shall not exceed 10 % opacity from the receiving, handling or transferring of coal. [AC27-117650, Specific Condition 2]
- I.4. Coal Handling Operations.** Water sprays or chemical wetting agents and stabilizers shall be applied to the storage piles, handling equipment, etc., during dry periods and as necessary to all coal handling facilities to minimize visible emissions. [PSD-FL-090, AC27-117650, Specific Condition 4]
- I.5. Unconfined Emissions of Particulate Matter.**
  - a. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or, industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions.

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection I. Cement Plant/Power Plant Coal Receiving, Handling and Transfer Activities**

b. The permittee shall take reasonable precautions and work practices to prevent fugitive particulate matter emissions at the site, such as the application of water, wetting agents and/or dust suppressants on roads and any construction activity, landscaping or the planting of vegetation, and enclosure or covering of conveyor systems.

[AC27-117650, Specific Condition 5; PSD-FL-090; PA 82-17 and PA 82-17E; and, Rule 62-296.320(4)(c)1. & 3., F.A.C.]

**I.6. Control of Fugitives.** Water sprays or chemical wetting agents and stabilizers shall be used at the coal receiving area, the coal storage area, and the coal transfer system to control fugitive particulate matter emissions. [PA 82-17 and PA 82-17E; PSD-FL-090; and, Rule 62-296.320(4)(c)3., F.A.C.]

**I.7. Conveyors.** All conveyors and conveyor transport points are enclosed to preclude particulate matter emissions (except those directly associated with the coal stacker/reclaimer or emergency stockout stacker/reclaimer or emergency stockout). [PA 82-17 and PA 82-17E; PSD-FL-090; and, Rule 62-296.320(4)(c)3., F.A.C.]

**I.8. Inactive Coal Storage.** The inactive coal storage piles shall be shaped, compacted and oriented to minimize wind erosion. [PSD-FL-090; and, Rule 62-296.320(4)(c)3., F.A.C.]

**I.9. Water Spray.** A water spray system shall be used as necessary to control fugitive dust emissions during coal unloading operation from train cars to the receiving area. [AC27-117650, Specific Condition 4; and, Rule 62-296.320(4)(c)3., F.A.C.]

**I.10. Particulate Matter Emissions.** The following table reflects the total projected/potential particulate matter emissions from the receiving, handling and transferring of coal. Compliance with these particulate matter emission projections will be presumed if the 10% visible emissions limit is met and the work practices are observed:

<b>Activity</b>	<b>lbs/hr</b>	<b>TPY</b>
Receiving	0.60	0.03
Receiving and Storage Transfer	< 0.01	0.004
Traffic	0.75	0.81
Storage to C/P Plants System Transfer	0.01	0.012
Traffic	1.10	2.413
C/P Plants System Four Transfers	0.01	0.017
Wind Erosion from Storage	0.26	0.056
<u>Total</u>	2.74	3.3

[AC27-117650, Specific Condition 5]

**Test Methods and Procedures**

**I.11. Visible Emissions.** Visible emissions shall be demonstrated using DEP Method 9 pursuant to Chapter 62-297, F.A.C. [AC27-117650, Specific Condition 2; Rule 62-297.401, F.A.C.]

**I.12. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

**I.13. Annual Compliance Tests Required.** During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), each EU shall be tested to demonstrate compliance with the emissions standards for visible emissions. [Rule 62-297.310(7), F.A.C.]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

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**Subsection I. Cement Plant/Power Plant Coal Receiving, Handling and Transfer Activities**

**Reporting and Recordkeeping Requirements**

**I.14. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection J. Emergency Diesel Generator**

**The specific conditions in this section apply to the following emissions unit(s):**

<b>E.U. ID No.</b>	<b>Brief Description</b>
063	Emergency Diesel Generator for Line 2

This emergency diesel generator is a six cylinder Detroit Diesel Corporation family 7DDXL14 model rated at 685 horsepower with an engine displacement of 14 liters. It was manufactured in March of 2007. It is run approximately one hour per week for maintenance checks.

The following table provides important details for this emissions unit:

<b>E.U. ID No.</b>	<b>Engine Brake HP</b>	<b>Date of Construction</b>	<b>Model Year</b>	<b>Primary Fuel</b>	<b>Type of Engine</b>	<b>Displacement liters/cylinder (l/c)</b>	<b>Serial #</b>	<b>Date of last mod. or reconst.</b>
063	685	03/01/2007	2007	Diesel	Emergency	2.33	06R097 1420	N/A

*{Permitting Note: This emissions unit, a compression ignition (CI) engine, is regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary Reciprocal Internal Combustion Engines (RICE) adopted in Rule 62.204.800(11)(b), F.A.C. and 40 CFR 60, Subpart IIII, NSPS. This RICE is not used for fire pumps. This permit section addresses “new” stationary CI RICE greater than 500 HP and less than or equal to 750 HP, with a displacement less than 10 liters per cylinder, that are located at a major source of HAP and that have been modified, reconstructed or commenced construction on or after 12/19/2002 and have a post-2007 model year.}*

**Essential Potential to Emit (PTE) Parameters**

**J.1. Allowable Fuel.** The Stationary RICE must use diesel fuel that meets the following requirements for non-road diesel fuel:

- a. *Sulfur Content.* The sulfur content shall not exceed = 15 ppm = 0.0015% weight for Non-Road fuel.
  - b. *Cetane and Aromatic.* The fuel must have a minimum cetane index of 40 or must have a maximum aromatic content of 35 volume percent.
- [40 CFR 60.4207(b) and 80.510(b)]

**J.2. Hours of Operation**

- a. *Emergency Situations.* There is no time limit on the use of emergency stationary RICE in emergency situations. [40 CFR 60.4211(f)]
- b. *Maintenance and Testing.* Each RICE is authorized to operate for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. [40 CFR 60.4211(f)]
- c. *Other Situations.* Each RICE cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR 60.4219]

**Emission Limitations**

**J.3. NMHC + NO<sub>x</sub> Emissions.** Non-Methane Hydrocarbons and Nitrogen oxide emissions shall not exceed 4.0 g/KW-hr. [40 CFR 60.4205(b)]

**J.4. CO Emissions.** Carbon monoxide emissions shall not exceed 3.5 g/KW-hr. [40 CFR 60.4205(b)]

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection J. Emergency Diesel Generator

- J.5. PM Emissions.** Particulate matter emissions shall not exceed 0.2 g/KW-hr. [40 CFR 60.4205(b)]
- J.6. Operation and Maintenance.** The owner or operator must operate and maintain the stationary CI internal combustion engine according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. The owner or operator must meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply. [40 CFR 60.4211(a)]

#### **Monitoring of Operations**

- J.7. Hour Meter.** The owner or operator must install a non-resettable hour meter if one is not already installed. [40 CFR 60.4209(a)]

#### **Compliance**

- J.8. Compliance Requirements.** No stack testing for compliance with emissions limits is required. Owner or operator must demonstrate compliance according to the method below:  
*Certification.* Have purchased an engine certified according to 40 CFR Part 89 or Part 94, as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)]

{ Permitting Note: This engine must be certified to meet the non-road Tier 3 standards found in 40 CFR 89.112 and 89.113. Alternatively, if the engine is certified to a cleaner voluntary emission standard, the EPA certified Blue Sky series engines that have a lower limit for PM (0.12 gr/kw-hr), then the records in conditions **J.10** and **J.11** below are not required }

#### **Testing Requirements**

- J.9. Performance Test.** No annual performance tests are required for this emissions unit. [40 CFR 60.4211(c)]

#### **Recordkeeping and Reporting Requirements**

- J.10. Required Records.** Owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner or operator must record the time of operation of the engine and the reason the engine was in operation during that time. [40 CFR 60.4214]

**J.11. Record Retention.**

- a. *Form.* The owner or operator must keep records in a suitable and readily available form for expeditious reviews.
- b. *Duration.* The owner or operator must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

[40 CFR 63.6660 and 40 CFR 63.10(b)(1)]

#### **General Provisions**

- J.12. Subpart A.** The owner or operator must comply with the general provisions in 40 CFR 60 Subpart A, except 60.18. (See Appendix NSPS, Subpart A – General Provisions.) [40 CFR 60.4218]

**SECTION IV. CAIR PART.**  
**Clean Air Interstate Rule Provisions**

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**Clean Air Interstate Rule (CAIR).**

**Operated by: Central Power & Lime, LLC**

**Plant: CP&L Plant**

**ORIS Code: 10333**

The emissions unit below is regulated under the Clean Air Interstate Rule.

<b>EU No.</b>	<b>EPA Unit ID#</b>	<b>Brief Description</b>
018	1	150 megawatt bituminous coal fired dry-bottom boiler

1. Clean Air Interstate Rule Application. The Clean Air Interstate Rule Part Form submitted for this facility is a part of this permit. The owners and operators of these CAIR units as identified in this form must comply with the standard requirements and special provisions set forth in the CAIR Part Form (DEP Form No. 62-210.900(1)(b)) dated March 16, 2008, which is attached at the end of this section. [Chapter 62-213, F.A.C. and Rule 62-210.200, F.A.C.]





**SECTION IV. CAIR PART.**  
**Clean Air Interstate Rule Provisions**

Central Power & Lime

Plant Name (from STEP 1)

**STEP 3**

**Read the  
standard  
requirements.**

**CAIR NO<sub>x</sub> ANNUAL TRADING PROGRAM**

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall:
  - (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.122 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
  - (ii) [Reserved];
- (2) The owners and operators of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CC, and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HH, and Rule 62-296.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH, shall be used to determine compliance by each CAIR NO<sub>x</sub> source with the following CAIR NO<sub>x</sub> Emissions Requirements.

NO<sub>x</sub> Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> allowances available for compliance deductions for the control period under 40 CFR 96.154(e) in an amount not less than the tons of total NO<sub>x</sub> emissions for the control period from all CAIR NO<sub>x</sub> units at the source, as determined in accordance with 40 CFR Part 96, Subpart HH.
- (2) A CAIR NO<sub>x</sub> unit shall be subject to the requirements under paragraph (1) of the NO<sub>x</sub> Requirements starting on the later of January 1, 2009, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.170(b)(1) or (2) and for each control period thereafter.
- (3) A CAIR NO<sub>x</sub> allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO<sub>x</sub> Requirements, for a control period in a calendar year before the year for which the CAIR NO<sub>x</sub> allowance was allocated.
- (4) CAIR NO<sub>x</sub> allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>x</sub> Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FF and GG.
- (5) A CAIR NO<sub>x</sub> allowance is a limited authorization to emit one ton of NO<sub>x</sub> in accordance with the CAIR NO<sub>x</sub> Annual Trading Program. No provision of the CAIR NO<sub>x</sub> Annual Trading Program, the CAIR Part, or an exemption under 40 CFR 96.105 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR NO<sub>x</sub> allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EE, FF, or GG, every allocation, transfer, or deduction of a CAIR NO<sub>x</sub> allowance to or from a CAIR NO<sub>x</sub> unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO<sub>x</sub> unit.

Excess Emissions Requirements.

If a CAIR NO<sub>x</sub> source emits NO<sub>x</sub> during any control period in excess of the CAIR NO<sub>x</sub> emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO<sub>x</sub> unit at the source shall surrender the CAIR NO<sub>x</sub> allowances required for deduction under 40 CFR 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.
  - (i) The certificate of representation under 40 CFR 96.113 for the CAIR designated representative for the source and each CAIR NO<sub>x</sub> unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.
  - (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO<sub>x</sub> Annual Trading Program.
  - (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO<sub>x</sub> Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> Annual Trading Program.
- (2) The CAIR designated representative of a CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall submit the reports required under the CAIR NO<sub>x</sub> Annual Trading Program, including those under 40 CFR Part 96, Subpart HH.

**SECTION IV. CAIR PART.**  
**Clean Air Interstate Rule Provisions**

Central Power & Lime  Plant Name (from STEP 1)
--

**STEP 3,  
Continued**

Liability.

- (1) Each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit shall meet the requirements of the CAIR NO<sub>x</sub> Annual Trading Program.
- (2) Any provision of the CAIR NO<sub>x</sub> Annual Trading Program that applies to a CAIR NO<sub>x</sub> source or the CAIR designated representative of a CAIR NO<sub>x</sub> source shall also apply to the owners and operators of such source and of the CAIR NO<sub>x</sub> units at the source.
- (3) Any provision of the CAIR NO<sub>x</sub> Annual Trading Program that applies to a CAIR NO<sub>x</sub> unit or the CAIR designated representative of a CAIR NO<sub>x</sub> unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR NO<sub>x</sub> Annual Trading Program, a CAIR Part, or an exemption under 40 CFR 96.105 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO<sub>x</sub> source or CAIR NO<sub>x</sub> unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

**CAIR SO<sub>2</sub> TRADING PROGRAM**

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall:
  - (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.222 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
  - (ii) [Reserved];
- (2) The owners and operators of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CCC, for the source and operate the source and each CAIR unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR SO<sub>2</sub> source and each SO<sub>2</sub> CAIR unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHH, and Rule 62-296.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH, shall be used to determine compliance by each CAIR SO<sub>2</sub> source with the following CAIR SO<sub>2</sub> Emission Requirements.

SO<sub>2</sub> Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO<sub>2</sub> allowances available for compliance deductions for the control period, as determined in accordance with 40 CFR 96.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO<sub>2</sub> units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHH.
- (2) A CAIR SO<sub>2</sub> unit shall be subject to the requirements under paragraph (1) of the Sulfur Dioxide Emission Requirements starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.270(b)(1) or (2) and for each control period thereafter.
- (3) A CAIR SO<sub>2</sub> allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the SO<sub>2</sub> Emission Requirements, for a control period in a calendar year before the year for which the CAIR SO<sub>2</sub> allowance was allocated.
- (4) CAIR SO<sub>2</sub> allowances shall be held in, deducted from, or transferred into or among CAIR SO<sub>2</sub> Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFF and GGG.
- (5) A CAIR SO<sub>2</sub> allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO<sub>2</sub> Trading Program. No provision of the CAIR SO<sub>2</sub> Trading Program, the CAIR Part, or an exemption under 40 CFR 96.205 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR SO<sub>2</sub> allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or GGG, every allocation, transfer, or deduction of a CAIR SO<sub>2</sub> allowance to or from a CAIR SO<sub>2</sub> unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR SO<sub>2</sub> unit.

Excess Emissions Requirements.

If a CAIR SO<sub>2</sub> source emits SO<sub>2</sub> during any control period in excess of the CAIR SO<sub>2</sub> emissions limitation, then:

- (1) The owners and operators of the source and each CAIR SO<sub>2</sub> unit at the source shall surrender the CAIR SO<sub>2</sub> allowances required for deduction under 40 CFR 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable state law.

**SECTION IV. CAIR PART.**  
**Clean Air Interstate Rule Provisions**

Central Power & Lime

Plant Name (from STEP 1)

**STEP 3,  
Continued**

**Recordkeeping and Reporting Requirements.**

(1) Unless otherwise provided, the owners and operators of the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Department or the Administrator.

(i) The certificate of representation under 40 CFR 96.213 for the CAIR designated representative for the source and each CAIR SO<sub>2</sub> unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.213 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO<sub>2</sub> Trading Program.

(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR SO<sub>2</sub> Trading Program or to demonstrate compliance with the requirements of the CAIR SO<sub>2</sub> Trading Program.

(2) The CAIR designated representative of a CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall submit the reports required under the CAIR SO<sub>2</sub> Trading Program, including those under 40 CFR Part 96, Subpart HHH.

**Liability.**

(1) Each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit shall meet the requirements of the CAIR SO<sub>2</sub> Trading Program.

(2) Any provision of the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR SO<sub>2</sub> source or the CAIR designated representative of a CAIR SO<sub>2</sub> source shall also apply to the owners and operators of such source and of the CAIR SO<sub>2</sub> units at the source.

(3) Any provision of the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR SO<sub>2</sub> unit or the CAIR designated representative of a CAIR SO<sub>2</sub> unit shall also apply to the owners and operators of such unit.

**Effect on Other Authorities.**

No provision of the CAIR SO<sub>2</sub> Trading Program, a CAIR Part, or an exemption under 40 CFR 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR SO<sub>2</sub> source or CAIR SO<sub>2</sub> unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

**CAIR NO<sub>x</sub> OZONE SEASON TRADING PROGRAM**

**CAIR Part Requirements.**

(1) The CAIR designated representative of each CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall:

(i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.322 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and

(ii) [Reserved];

(2) The owners and operators of each CAIR NO<sub>x</sub> Ozone Season source required to have a Title V operating permit or air construction permit, and each CAIR NO<sub>x</sub> Ozone Season unit required to have a Title V operating permit or air construction permit at the source shall have a CAIR Part included in the Title V operating permit or air construction permit issued by the DEP under 40 CFR Part 96, Subpart CCCC, for the source and operate the source and the unit in compliance with such CAIR Part.

**Monitoring, Reporting, and Recordkeeping Requirements.**

(1) The owners and operators, and the CAIR designated representative, of each CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHHH, and Rule 62-296.470, F.A.C.

(2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHHH, shall be used to determine compliance by each CAIR NO<sub>x</sub> Ozone Season source with the following CAIR NO<sub>x</sub> Ozone Season Emissions Requirements.

**NO<sub>x</sub> Ozone Season Emission Requirements.**

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> Ozone Season allowances available for compliance deductions for the control period under 40 CFR 96.354(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for the control period from all CAIR NO<sub>x</sub> Ozone Season units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHHH.

(2) A CAIR NO<sub>x</sub> Ozone Season unit shall be subject to the requirements under paragraph (1) of the NO<sub>x</sub> Ozone Season Emission Requirements starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.370(b)(1), (2), or (3) and for each control period thereafter.

(3) A CAIR NO<sub>x</sub> Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO<sub>x</sub> Ozone Season Emission Requirements, for a control period in a calendar year before the year for which the CAIR NO<sub>x</sub> Ozone Season allowance was allocated.

(4) CAIR NO<sub>x</sub> Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>x</sub> Ozone Season Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFFF and GGGG.

(5) A CAIR NO<sub>x</sub> Ozone Season allowance is a limited authorization to emit one ton of NO<sub>x</sub> in accordance with the CAIR NO<sub>x</sub> Ozone Season Trading Program. No provision of the CAIR NO<sub>x</sub> Ozone Season Trading Program, the CAIR Part, or an exemption under 40 CFR 96.305 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR NO<sub>x</sub> Ozone Season allowance does not constitute a property right.

(7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EEEE, FFFF or GGGG, every allocation, transfer, or deduction of a

**SECTION IV. CAIR PART.  
Clean Air Interstate Rule Provisions**

CAIR NO<sub>x</sub> Ozone Season allowance to or from a CAIR NO<sub>x</sub> Ozone Season unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO<sub>x</sub> Ozone Season unit.

Central Power & lime  Plant Name (from STEP 1)
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**STEP 3,  
Continued**

Excess Emissions Requirements.

If a CAIR NO<sub>x</sub> Ozone Season source emits NO<sub>x</sub> during any control period in excess of the CAIR NO<sub>x</sub> Ozone Season emissions limitation, then:  
 (1) The owners and operators of the source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall surrender the CAIR NO<sub>x</sub> Ozone Season allowances required for deduction under 40 CFR 96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law, and  
 (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAAAA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.  
 (i) The certificate of representation under 40 CFR 96.313 for the CAIR designated representative for the source and each CAIR NO<sub>x</sub> Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.  
 (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.  
 (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO<sub>x</sub> Ozone Season Trading Program.  
 (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO<sub>x</sub> Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> Ozone Season Trading Program.  
 (2) The CAIR designated representative of a CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall submit the reports required under the CAIR NO<sub>x</sub> Ozone Season Trading Program, including those under 40 CFR Part 96, Subpart HHHH.

Liability.

(1) Each CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit shall meet the requirements of the CAIR NO<sub>x</sub> Ozone Season Trading Program.  
 (2) Any provision of the CAIR NO<sub>x</sub> Ozone Season Trading Program that applies to a CAIR NO<sub>x</sub> Ozone Season source or the CAIR designated representative of a CAIR NO<sub>x</sub> Ozone Season source shall also apply to the owners and operators of such source and of the CAIR NO<sub>x</sub> Ozone Season units at the source.  
 (3) Any provision of the CAIR NO<sub>x</sub> Ozone Season Trading Program that applies to a CAIR NO<sub>x</sub> Ozone Season unit or the CAIR designated representative of a CAIR NO<sub>x</sub> Ozone Season unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR NO<sub>x</sub> Ozone Season Trading Program, a CAIR Part, or an exemption under 40 CFR 96.305 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO<sub>x</sub> Ozone Season source or CAIR NO<sub>x</sub> Ozone Season unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

**STEP 4**

**Certification (for designated representative or alternate designated representative only)**

**Read the certification statement; provide name, title, owner company name, phone, and e-mail address; sign, and date.**

I am authorized to make this submission on behalf of the owners and operators of the CAIR source or CAIR units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Terry Woodard Name	Power Plant Manager Title
DPS Florida LLC Company Owner Name	
352 799-7881 Phone	twoard@deltapowerservices.com E-mail Address
Signature <i>Terry Woodard</i>	Date 4-30-08

**SECTION V. APPENDICES.**

**The Following Appendices Are Enforceable Parts of This Permit:**

Appendix A, Glossary.

Appendix CAM, Compliance Assurance Monitoring Plan.

Appendix I, List of Insignificant Emissions Units and/or Activities.

Appendix NESHAP, Subpart A – General Provisions.

Appendix NESHAP, Subpart LLL Current – Portland Cement Manufacturing Industry (rev. December 20, 2006).

Appendix NESHAP, Subpart LLL New – Portland Cement Manufacturing Industry (rev. September 9, 2010).

Appendix NSPS, Subpart A – General Provisions.

Appendix NSPS, Subpart F – Portland Cement Plants.

Appendix NSPS Subpart Y, Standards of Performance for Coal Preparation Plants.

Appendix RR, Facility-wide Reporting Requirements.

Appendix TR, Facility-wide Testing Requirements.

Appendix TV, Title V General Conditions.

## Friday, Barbara

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**From:** Friday, Barbara  
**Sent:** Friday, October 28, 2011 10:09 AM  
**To:** 'jdaniel@cemexusa.com'  
**Cc:** Zhang-Torres; 'mlee@kooglerassociates.com'; 'forney.kathleen@epamail.epa.gov'; 'oquendo.ana@epa.gov'; Mulkey, Cindy; Searce, Lynn; 'aharvey@earthjustice.org'; Holtom, Jonathan  
**Subject:** CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV  
**Attachments:** 0530021-029AVSignedWrittenNoticeofIntent.pdf

Tracking:	Recipient	Delivery	Read
✓	'jdaniel@cemexusa.com'		
✓	Zhang-Torres	Delivered: 10/28/2011 10:09 AM	Read: 10/28/2011 10:32 AM
✓	'mlee@kooglerassociates.com'		
	'forney.kathleen@epamail.epa.gov'		
	'oquendo.ana@epa.gov'		
✓	Mulkey, Cindy	Delivered: 10/28/2011 10:09 AM	Read: 10/28/2011 10:14 AM
✓	Searce, Lynn	Delivered: 10/28/2011 10:09 AM	Read: 10/28/2011 10:28 AM
✓	'aharvey@earthjustice.org'		
✓	Holtom, Jonathan	Delivered: 10/28/2011 10:09 AM	Read: 10/28/2011 10:09 AM

Dear Mr. Daniel:

Attached is the official **Notice of Draft/Proposed Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

*Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).*

Attention: Tom Cascio

Owner/Company Name: CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC  
Facility Name: CEMEX BROOKSVILLE S. CEMENT and POWER PLANT  
Project Number: 0530021-029-AV  
Permit Status: DRAFT/PROPOSED  
Permit Activity: PERMIT RENEWAL  
Facility County: HERNANDO

Click on the following link to access the permit project documents:

[http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\\_permit\\_zip\\_files/0530021.029.AV.D\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0530021.029.AV.D_pdf.zip)

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Permit project documents addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Office of Permitting and Compliance.

Note: The attached document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site: <<http://www.adobe.com/products/acrobat/readstep.html>> .

Regards,

**Barbara Friday**

Office of Permitting and Compliance (OPC)

Division of Air Resources Management

850-717-9095

*Please take a few minutes to share your comments on the service you received from the department by clicking on this link. [DEP Customer Survey](#).*



**Friday, Barbara**

---

**From:** Microsoft Exchange  
**To:** 'jdaniel@cemexusa.com'  
**Sent:** Friday, October 28, 2011 10:10 AM  
**Subject:** Relayed: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

'jdaniel@cemexusa.com'

Subject: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

---

---

Sent by Microsoft Exchange Server 2007

## Friday, Barbara

---

**From:** Daniel, James S. (Jim) [JDaniel@cemexusa.com]  
**To:** Friday, Barbara  
**Sent:** Friday, October 28, 2011 10:17 AM  
**Subject:** Read: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC;  
0530021-029-AV

Your message was read on Friday, October 28, 2011 10:17:14 AM (GMT-05:00) Eastern Time (US & Canada).

## Friday, Barbara

---

**From:** Daniel, James S. (Jim) [JDaniel@cemexusa.com]  
**Sent:** Friday, October 28, 2011 10:22 AM  
**To:** Friday, Barbara  
**Subject:** RE: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

I am able to access. Thank you.



**Jim Daniel**

Plant Manager – Brooksville South Cement - United States of America  
Office: (352) 799-7881 Fax: (352) 799-6088 Mobile: (352) 584-3798  
Address: 10311 Cement Plant Rd, Brooksville, FL 34601  
e-Mail: [jdaniel@cemexusa.com](mailto:jdaniel@cemexusa.com)  
[www.cemexusa.com](http://www.cemexusa.com)



Please consider the environment before printing this email.

---

**From:** Friday, Barbara [<mailto:Barbara.Friday@dep.state.fl.us>]  
**Sent:** Friday, October 28, 2011 10:09 AM  
**To:** Daniel, James S. (Jim)  
**Cc:** Zhang-Torres; 'mlee@kooglerassociates.com'; 'forney.kathleen@epamail.epa.gov'; 'oquendo.ana@epa.gov'; Mulkey, Cindy; Scarce, Lynn; 'aharvey@earthjustice.org'; Holtom, Jonathan  
**Subject:** CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

Dear Mr. Daniel:

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Attention: Tom Cascio

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Facility Name: CEMEX BROOKSVILLE S. CEMENT and POWER PLANT  
Project Number: 0530021-029-AV  
Permit Status: DRAFT/PROPOSED  
Permit Activity: PERMIT RENEWAL  
Facility County: HERNANDO

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[http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\\_permit\\_files/0530021.029.AV.D\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_files/0530021.029.AV.D_pdf.zip)

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Regards,

**Barbara Friday**

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Division of Air Resources Management

850-717-9095

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## Friday, Barbara

---

**From:** Woodard, Willis T [WWoodard@deltapowerservices.com]  
**Sent:** Friday, October 28, 2011 10:15 AM  
**Subject:** Read: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC;  
0530021-029-AV

Your message was read on Friday, October 28, 2011 10:15:10 AM (GMT-05:00) Eastern Time (US & Canada).

## Friday, Barbara

---

**From:** Woodard, Willis T [WWoodard@deltapowerservices.com]  
**Sent:** Friday, October 28, 2011 10:30 AM  
**To:** Friday, Barbara  
**Subject:** RE: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

I am able to view all documents.

Terry Woodard  
Plant Manager  
DPS of Florida, Central Power & Lime  
Office 352-799-7881  
Fax 352-799-3508

[wwoodard@deltapowerservices.com](mailto:wwoodard@deltapowerservices.com)

---

**From:** Friday, Barbara [<mailto:Barbara.Friday@dep.state.fl.us>]  
**Sent:** Friday, October 28, 2011 10:13 AM  
**To:** Woodard, Willis T  
**Subject:** FW: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

---

**From:** Friday, Barbara  
**Sent:** Friday, October 28, 2011 10:09 AM  
**To:** 'jdaniel@cemexusa.com'  
**Cc:** Zhang-Torres; 'mlee@kooglerassociates.com'; 'forney.kathleen@epamail.epa.gov'; 'oquendo.ana@epa.gov'; Mulkey, Cindy; Scarce, Lynn; 'aharvey@earthjustice.org'; Holtom, Jonathan  
**Subject:** CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

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**Barbara Friday**

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**Friday, Barbara**

---

**From:** Microsoft Exchange  
**To:** 'mlee@kooglerassociates.com'  
**Sent:** Friday, October 28, 2011 10:10 AM  
**Subject:** Relayed: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

'mlee@kooglerassociates.com'

Subject: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

---

Sent by Microsoft Exchange Server 2007



## Friday, Barbara

---

**From:** Max Lee [mlee@kooglerassociates.com]  
**Sent:** Friday, October 28, 2011 3:36 PM  
**To:** Friday, Barbara  
**Subject:** Read: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC;  
0530021-029-AV  
**Attachments:** ATT00001

**Friday, Barbara**

---

**From:** Microsoft Exchange  
**To:** 'aharvey@earthjustice.org'  
**Sent:** Friday, October 28, 2011 10:10 AM  
**Subject:** Relayed: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

'aharvey@earthjustice.org'

Subject: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

---

---

Sent by Microsoft Exchange Server 2007

## Friday, Barbara

---

**From:** Anne Harvey [aharvey@earthjustice.org]  
**To:** Friday, Barbara  
**Sent:** Friday, October 28, 2011 10:21 AM  
**Subject:** Read: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC;  
0530021-029-AV

Your message was read on Friday, October 28, 2011 10:20:53 AM (GMT-05:00) Eastern Time (US & Canada).

## Friday, Barbara

---

**From:** Microsoft Exchange  
**To:** Zhang-Torres; Mulkey, Cindy; Holtom, Jonathan; Searce, Lynn  
**Sent:** Friday, October 28, 2011 10:09 AM  
**Subject:** Delivered: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

**Your message has been delivered to the following recipients:**

Zhang-Torres

Mulkey, Cindy

Holtom, Jonathan

Searce, Lynn

Subject: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC; 0530021-029-AV

---

Sent by Microsoft Exchange Server 2007

## Friday, Barbara

---

**From:** Zhang-Torres  
**To:** Friday, Barbara  
**Sent:** Friday, October 28, 2011 10:32 AM  
**Subject:** Read: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC;  
0530021-029-AV

Your message was read on Friday, October 28, 2011 10:31:53 AM (GMT-05:00) Eastern Time (US & Canada).

## Friday, Barbara

---

**From:** Mulkey, Cindy  
**To:** Friday, Barbara  
**Sent:** Friday, October 28, 2011 10:14 AM  
**Subject:** Read: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC;  
0530021-029-AV

Your message was read on Friday, October 28, 2011 10:13:49 AM (GMT-05:00) Eastern Time (US & Canada).

## Friday, Barbara

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**From:** Holtom, Jonathan  
**To:** Friday, Barbara  
**Sent:** Friday, October 28, 2011 10:09 AM  
**Subject:** Read: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC;  
0530021-029-AV

Your message was read on Friday, October 28, 2011 10:09:27 AM (GMT-05:00) Eastern Time (US & Canada).

## Friday, Barbara

---

**From:** Scarce, Lynn  
**To:** Friday, Barbara  
**Sent:** Friday, October 28, 2011 10:28 AM  
**Subject:** Read: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC;  
0530021-029-AV

Your message was read on Friday, October 28, 2011 10:27:44 AM (GMT-05:00) Eastern Time (US & Canada).



## Friday, Barbara

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**From:** Cascio, Tom  
**To:** Friday, Barbara  
**Sent:** Wednesday, November 02, 2011 8:41 AM  
**Subject:** Read: FW: CEMEX Construction Materials Florida, LLC - Central Power & Lime, LLC;  
0530021-029-AV

Your message was read on Wednesday, November 02, 2011 8:40:32 AM (GMT-05:00) Eastern Time (US & Canada).